



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

TA
24
03
A2

B 428037

Board of Public Works

SIXTY-EIGHTH ANNUAL REPORT

also the Fifth Annual Report
of the Board of Public Works,
and the Chief Engineer of
Public Works, Acting as a
Joint Board in the Manage-
ment and Control of the State
Public Parks and Pleasure
Resorts of Ohio

*to the Governor of the State of Ohio
for the Year Ending November 15*

1906



SIXTY-EIGHTH ANNUAL REPORT.

OF THE

BOARD OF PUBLIC WORKS

ALSO THE

Fifth Annual Report of the Board of Public Works, and
the Chief Engineer of Public Works, Acting as a
Joint Board in the Management and Control of the State Public Parks and
Pleasure Resorts of Ohio

TO THE

Governor of the State of Ohio

FOR THE

Year Ending November 15, 1906.



COLUMBUS, OHIO:
F. J. HEER, STATE PRINTER,
1907.

OFFICE OF BOARD OF PUBLIC WORKS.

COLUMBUS, OHIO, November 15, 1906.

To his Excellency, ANDREW L. HARRIS, Governor of Ohio:

SIR: — I have the honor to transmit to you herewith the sixty-eighth annual report of the Board of Public Works.

GEO. H. WATKINS,
President Board of Public Works.

The Sixty-Eighth Annual Report

OF THE

BOARD OF PUBLIC WORKS.

HON. ANDREW L. HARRIS, *Governor of Ohio.*

SIR:— The sixty-eighth annual report of the Board of Public Works of Ohio for the fiscal year ending November 15, 1906, is herewith presented.

As required by law, the Board was reorganized on the second Tuesday of February, 1906, at which time Hon. Wm. Kirtley, Jr., of Defiance County, took his seat as a member of the Board, having been re-elected in November, 1905.

Having given a bond in the sum of \$30,000.00, which was approved by the Governor and filed with the Treasurer of the State, he was sworn in and assumed the duties of the office.

Hon. Geo. H. Watkins, being the senior member, was, agreeable to a rule of the Board, elected President for the ensuing year..

Hon. B. W. Baldwin, of Ashtabula County, having been appointed a member of the Board to fill the unexpired term of the late Richard B. Crawford, and having filed his bond in the sum of \$30,000.00, and taken the oath of office took his seat as a member of the Board.

MEMBERS OF THE BOARD.

NAME.	RESIDENCE.	EXPIRATION OF TERM.
Geo. G. Watkins.....	Portsmouth	Second Tuesday in Feb'y, 1907
Wm. Kirtley, Jr.....	Defiance	Second Tuesday in Feb'y, 1909
B. W. Baldwin.....	Jefferson	Second Tuesday in Feb'y, 1909

For the convenience of the Board, the public works of the State were divided into three grand divisions same as heretofore, to-wit:

Grand division No. 1, embracing that portion of the Ohio Canal extended from Cleveland to Muskingum slack water at Dresden, including the Six Mile remnant of the Walkonding Canal, 19 miles of which was abandoned by an act of the General Assembly (see House Bill No. 508, passed April 27, 1896) making a total of 157 miles.

Grand division No. 2, embracing that portion of the Ohio Canal extending from Dresden Junction to Portsmouth, including the Columbus

Feeder, a distance of 169 miles. Also the State's reserved rights in the Hocking Canal.

Grand division No. 3, all of the Miami and Erie Canal extending from Cincinnati to Toledo, including the feeders and reservoirs.

OFFICERS BY APPOINTMENT.

CHIEF ENGINEER — Charles E. Perkins, Akron, appointed by the Governor; term expires May 22nd, 1908.

ASSISTANT ENGINEER — Samuel Bachtell, Columbus, appointed by the Board; term expires second Tuesday in February, 1908.

SECRETARY — W. H. McClintock, Defiance, appointed by the Board for the year ending second Tuesday in February, 1907. Died March 24th, 1906. W. E. Thompson, of Ironton, appointed by the Board to fill unexpired term.

ASSISTANT SECRETARY — Chas. W. Diehl, Cambridge, appointed by the Board for the year ending second Tuesday in February, 1907.

CHIEF CLERK LAND DEPARTMENT — Wheeler C. Wikoff, appointed by the Board for the year ending second Tuesday in February, 1907. Resigned August 15th, 1906.

ENGINEER LAND DEPARTMENT — Edward E. Booton, Patriot, appointed by the Board for the year ending second Tuesday in February, 1907.

DRAUGHTSMAN — Amos H. Sawyer, Columbus, appointed by the Board for the year ending second Tuesday in February, 1907.

MESSENGER — F. W. Schaub, Columbus, appointed by the Board; term expires second Tuesday in February, 1907.

SUPERINTENDENTS.

(Term expires March 31, 1907.)

Name.	Location.	Yearly Salary.
Chas. Hatch.....	Akron	\$1,700 00
Chas. H. Geidel.....	Coshocton	1,700 00
Harry R. Morris.....	Portsmouth	1,700 00
Chas. Cooper	Reading	1,700 00
John O'Connor	Dayton	1,700 00
H. W. Meacham.....	Toledo	1,700 00

COLLECTORS ON MIAMI AND ERIE CANAL.

(Term expires March 31, 1907.)

Name.	Location.	Yearly Salary.
Chas. Wittich	Toledo	\$600 00
D. H. Hancock	Napoleon	400 00
H. W. Myers	Defiance	420 00
Jos. A. Claypool	Delphos	250 00
W. A. Moxley	St. Marys	500 00
Frank C. Davies	Piqua	300 00
Elmer Wambold	Dayton	600 00
E. C. Booth	Middletown	400 00
J. W. Sullivan	Lockland	550 00
Fred. Maag	Cincinnati	1,000 00

COLLECTORS OHIO CANAL.

Name.	Location.	Yearly Salary.
Jas. M. Jones	Cleveland	\$900 00
J. H. Morrison	Akron	600 00
Mrs. Margaret S. Harvey	Canal Dover	450 00
David Atwater	Massillon	300 00
W. H. Wilson	Roscoe	420 00
W. H. Kirkendall	Newark .....	.....
W. H. Kirkendall	Carroll .....	.....
W. H. Kirkendall	Columbus .....	.....
W. H. Kirkendall	Circleville	300 00
Quimby Climer	Chillicothe	300 00

LOCK TENDERS.

MIAMI AND ERIE CANAL.

Name.	Location.	Monthly Salary.
Geo. Maccabee	Toledo	\$25 00
John Allen	Miami	15 00
H. C. Bortel	Providence Feeder	20 00
J. R. Mapes	Locks Nos. 42 and 43	10 00
Chas. Hauchett	Lock 41, waste way	15 00
Mrs. S. Rose	Independence	15 00
Wesley Koley	Defiance	25 00
A. Bolmer	Lock No. 32	5 00
James R. Byrum	Lock 14	5 00
Mrs. A. M. Trowbridge	Feeder Grand Reservoir	12 00
A. E. Shaffer, patrolman from	Waterville to Otsego	20 00
Sherman Galispie, patrolman from	Blue Creek to Ottoville	30 00

LOCK TENDERS — Concluded.

MIAMI AND ERIE CANAL.

Name.	Location.	Monthly Salary.
Wm. Smith, patrolman from.....	Ottoville to Delphos.....	35 00
James Kohn, patrolman from.....	Delphos to Spencerville.....	40 00
Wilson Fosnight, patrolman from...	Spencerville to St. Marys.....	30 00
Wesley McDonald, patrolman.....	Grand Reservoir	60 00
Julius Powell	Loramie Reservoir	10 00
A. O. T. Andrus.....	Lewistown Reservoir	10 00
Chas. Shafer	Port Jefferson	10 00
Theo. Gates	Sidney	3 00
Wm. Shaffer	Summit Level	3 00
C. F. Thomas.....	Piqua	10 00
Jas. Maley	Piqua	10 00
Geo. Dixon	Still House Lock.....	25 00
Josiah Couch	Troy	3 00
Louis Shaffer	Troy Feeder Lock.....	12 00
Elmer Sherdian	Picayune Lock	10 00
John Wood	Dayton	25 00
Daniel Tehan	Dayton waste gates.....	5 00
Wm. Sprow	Snyders' mill	10 00
Frank Grundish	Dryden Lock	5 00
Simon Strader	Carrollton	20 00
Wm. Meyers	Miamisburg	20 00
J. C. Gebhart	Sunfish Lock	15 00
J. D. Beatty	Franklin	10 00
Frank Dine	Middletown Feeder	40 00
Andy Barnickle	Middletown	10 00
Syl. Fleming	Amanda	18 00
J. E. Rupp.....	Rockdale	10 00
J. N. Abott	Hamilton	20 00
W. H. Kemp	Rialto	10 00
J. W. Gorman.....	Crescentville	10 00
James Aylward	Lockland	22 00
Theo Reutinger	Port Union	2 50
J. N. Abbott.....	Hamilton	20 00
Lenard Herzog	Dwyer's	10 00

LOCK TENDERS.

ERIE CANAL.

Name.	Location.	Monthly Salary.
Irwin Murphy	17 Mile Lock.....	\$20 00
L. Seeley	Peninsula	20 00
Chas. Lewis	Yellow Creek	20 00
Chas. Savacool	Akron Locks	45 00
S. P. Wygandt.....	Clinton	20 00
Selam Woods	Reservoir	5 00
W. M. Ridwell.....	Massillon	6 00
Wm. Hublinger.....	Wolf Creek	5 00
Wm. Lovell	Trenton	20 00
Wm. S. Smart.....	Adams Mills	20 00

LOCK TENDERS — Concluded.

ERIE CANAL.

Name.	Location.	Monthly Salary.
Wm. S. Shore.....	Dresden	10 00
Benjamin Richards	Licking Reservoir	15 00
John A. Spurgeon	Licking Feeder	25 00
John Benadum	Lockville	5 00
J. W. Koch.....	Circleville Dam	15 00
Henry Laughhorn	Three Locks	10 00

In presenting this our 68th Annual Report to your Excellency, we would respectfully call your attention to the report of the Chief Engineer of the Public Works of Ohio, in relation to the water ways of the State said report being attached herewith and the statements and recommendations as made being fully endorsed by this Board.

We beg to say that the policy by the several Acts and Appropriations made by the 76th and 77th General Assemblies for the Improvement of the Northern Division of the Ohio Canal between Cleveland and Dresden, and the Miami and Erie Canal, are being closely adhered to, and the work in connection therewith is being done in a good and substantial manner, which we believe when finished, will redound to the credit of the Department and to the benefit of the commonwealth.

The Department has been greatly embarrassed in carrying on its work, on account of the scarcity and high price of labor, and in this respect have suffered alike with other improvements that are being made throughout the entire country.

It is hoped that the entire improvement as contemplated by the Appropriations made by the past Assemblies, will be entirely completed by early next fall, at which time the Department hopes to be able to prove, by the improvement itself, the wisdom for this general improvement of the canals.

We still adhere to the belief that any movement that may be on foot, looking to the sale or abandonment of the canals of the State, would be taking a step backward in the material and commercial interests, and the future prosperity and growth of the State at large.

We also call attention to the financial statement of the Secretary which accompanies our report showing the receipts and expenditures in detail, incident to the repairs and maintenance of the several canals of the State during the past fiscal year.

It was a sorrow that we had to record the death of our colleague, The Hon. Richard B. Crawford, who died at his home in Massillon, on

October 17th, 1906. Mr. Crawford was a man of high principles and earnest and honest endeavors, and as an expression of our sorrow and the great respect in which he was held, our Board and the employees of this Department adopted a resolution upon the death of Mr. Crawford, which was spread upon the minutes and an engrossed copy of which was transmitted to the family of the deceased.

We beg to acknowledge the favorable services and assistance rendered us by the Chief Engineer of the Public Works, the Assistant Engineer, Secretary, Clerk, and the other attachees of the Department and the uniformly kind and courteous treatment received from them in the discharge of our duties.

Respectfully submitted,

GEO. H. WATKINS,

W. KIRTLEY, JR.,

B. W. BALDWIN.

Board of Public Works of Ohio.

Columbus, Ohio, November 15th, 1906.

NOTE— While Mr. Baldwin signs this report, he did not receive his commission until the 13th day of November, 1906, two days before the end of the fiscal year.

REPORT OF SECRETARY.

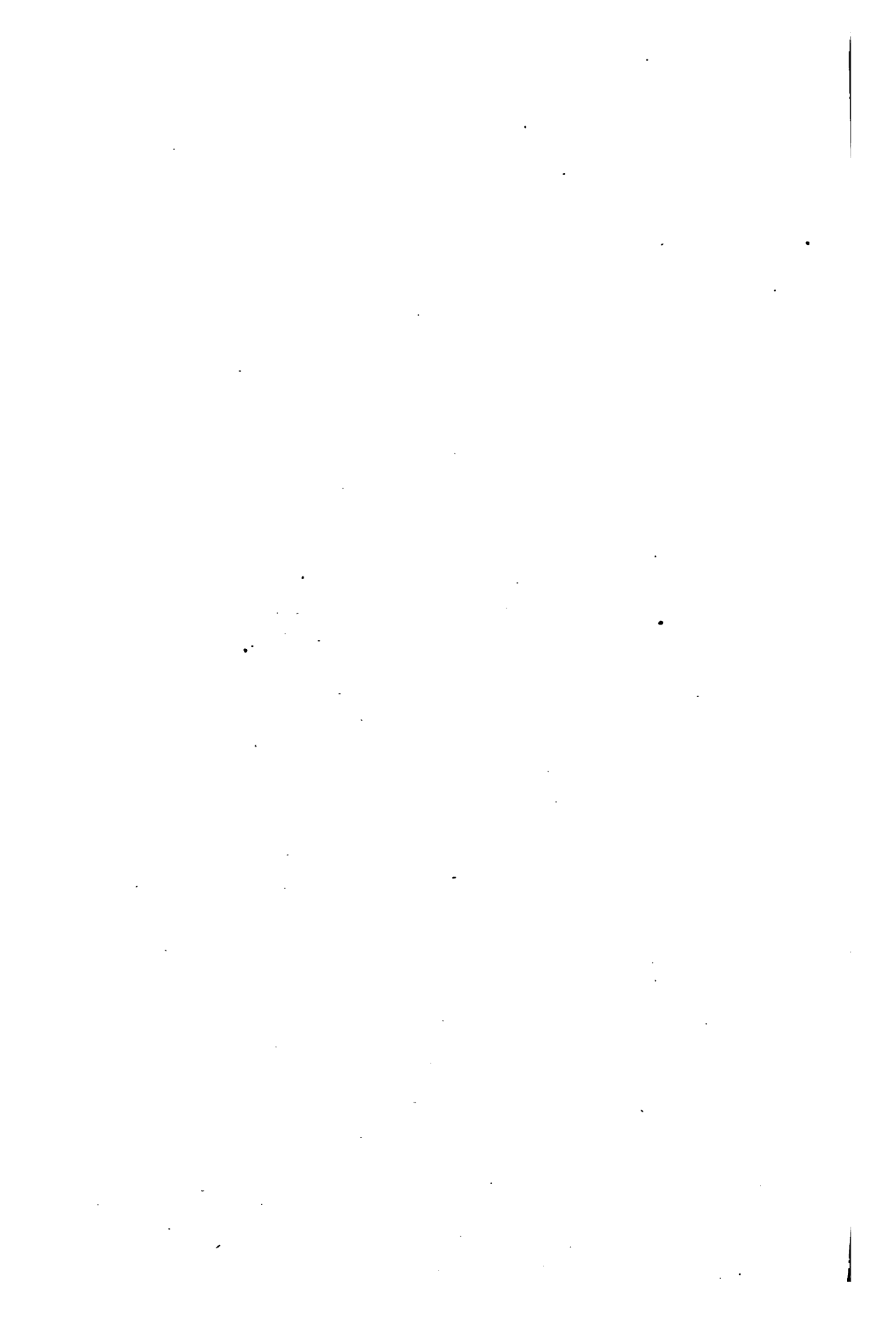
To the Honorable Board of Public Works.

GENTLEMEN:—I herewith present my report of the receipts and expenditures of your honorable Board during the fiscal year ending on the 15th day of November, 1906.

Very respectfully,

W. E. THOMPSON,

Secretary.



FINANCIAL STATEMENT OF BOARD OF PUBLIC WORKS.

The amount of collections from the public works of Ohio, for the fiscal year ending November 15th, 1906, as shown by the Collectors in their weekly reports, is given in the following tables:

MIAMI AND ERIE CANAL.

Offices.	Tolls.	Water Leases.	Pipe Permits.	Land Leases.	Totals.
Cincinnati	\$1,908 03	\$9,066 05	\$4,489 06	\$6,973 00	\$22,436 14
Lockland	638 11	.....	262 00	40 00	940 11
Middletown	109 92	1,524 00	891 15	3,159 50	5,684 57
Dayton	18 92	2,400 00	246 00	7,151 50	9,818 42
Piqua	114 37	2,005 00	686 00	1,066 10	3,871 47
|| St. Marys	227 00	1,347 50	1,317 70	7,526 80	10,419 00
*Delphos	491 60	1,142 50	530 29	118 76	2,283 15
Defiance	256 20	70 00	168 00	111 02	605 22
Napoleon	158 32	3,420 50	10 00	69 00	3,657 82
Toledo	115 08	2,770 00	500 50	614 35	3,999 93
Total	\$4,037 55	\$23,745 55	\$9,100 70	\$26,830 03	\$63,713 83

|| Oil royalty counted in land rentals, \$6,759 70.

* Oil royalty counted in land rentals, \$28.11.

OHIO CANAL — NORTHERN DIVISION.

Offices.	Tolls.	Water Leases.	Pipe Permits.	Land Leases.	Totals.
Cleveland .....	.....	.....	\$2,236 94	\$555 38	\$2,792 32
Akron	\$775 80	\$288 00	19,678 00	736 10	21,477 90
*Massillon	242 11	664 18	.....	2,112 00	3,018 29
Canal Dover	471 97	405 00	611 66	120 12	1,608 75
Roscoe	1,258 86	1,999 60	843 19	717 00	4,818 65
Total	\$2,748 74	\$3,356 78	\$23,369 79	\$4,240 60	\$33,715 91

* Sale of land counted in land rentals, \$2,100.

OHIO CANAL — SOUTHERN DIVISION.

Offices.	Tolls.	Water Leases.	Pipe Permits.	Land Leases.	Totals.
*Newark	\$10 00	\$15 00	\$1,181 00	\$2,497 73	\$3,703 73
†Carroll			207 00	1,257 50	1,464 50
Columbus			392 83	2,774 60	3,167 43
Circleville			220 50	298 50	519 00
Chillicothe	5 00	146 00	77 00	12 00	240 00
Waverly	53 33			39 00	92 33
Portsmouth				21 00	21 00
Total	\$68 33	\$161 00	\$2,078 33	\$6,900 33	\$9,207 99

* Sale of land counted in land rentals, \$40.

† Sale of land counted in land rentals, \$30.

RECAPITULATION.

CANALS.

Offices.	Tolls.	Water Leases.	Pipe Permits.	Land Leases.	Totals.
Miami & Erie...	\$4,037 55	\$23,745 55	\$9,100 70	\$26,830 03	\$63,713 83
Ohio — N. Div. ...	2,748 74	3,356 78	23,369 79	4,240 60	33,715 91
Ohio — S. Div. ...	68 33	161 00	2,078 33	6,900 33	9,207 99
Total	\$6,854 62	\$27,263 33	\$34,548 82	\$37,970 96	\$106,637 73

NOTE.

Amount received by State Treasurer from Canal Collectors and certified to Auditor of State for the fiscal year ending November 15, 1906 \$98,944 11

Amount collected by Canal Collectors prior to Nov. 15, 1906, but not received by State Treasurer until after close of fiscal year ending Nov. 15, 1906..... 7,693 62

Total receipts from Canal Collectors for the fiscal year ending November 15, 1906..... \$106,637 73

NOTE:—There was sold by the Ohio Canal Commission on Feb. 12th, 1906, at public auction, in the City of Akron, a tract of land for the sum of \$1,980.00, which amount was credited to the Canal Repair Fund Northern Division Ohio Canal.

COLLECTIONS AND APPROPRIATIONS.

The amount of revenue received from all sources for the fiscal year ending November 15th, 1906, as certified to the Board by the Auditor of State, was as follows:

RECEIPTS.

COLLECTIONS MIAMI AND ERIE CANAL.

Cincinnati ..—.....	\$21,085 49	
Lockland	972 97	
Middletown	5,678 04	
Dayton	9,803 87	
Piqua	4,692 73	
St. Marys	10,386 54	
Delphos	1,685 02	
Defiance	606 82	
Napoleon	3,640 01	
Toledo	4,144 87	
	<hr/>	\$62,696 36

COLLECTIONS OHIO CANAL — NORTHERN DIVISION.

Cleveland	\$2,670 32	
Akron	17,798 65	
Massillon	774 56	
Canal Dover	1,606 11	
Roscoe	3,764 85	
	<hr/>	\$26,614 49

COLLECTIONS OHIO CANAL — SOUTHERN DIVISION.

Newark	\$2,551 73	
Carroll	1,702 00	
Columbus	4,579 03	
Circleville	462 17	
Chillicothe	249 00	
Waverly	89 33	
	<hr/>	\$9,633 26

Total	\$98,944 11	
Deduct collections from public parks which is credited to the park fund	6,556 74	
	<hr/>	\$92,387 37
Add balance in treasury November 15, 1905.....	164,706 85	
	<hr/>	\$257,094 22
Total		\$257,094 22
General appropriations		61,700 00

Special appropriations, to-wit:

Reconstruction Ohio Canal, Cleveland to Dresden.....	100,000 00
Reconstruction M. & E., Davton to Cincinnati.....	100,000 00
Rebuilding M. & E. north of Dayton.....	50,000 00
Repairing banks Lewistown Reservoir.....	4,767 00
Investigating dynamiting cases.....	5,000 00
Building embankment at Lockbourne.....	900 00
Repairing damage by flood, M. & E. Canal.....	10,270 33

Total	\$589,731 55
-------------	--------------

DISBURSEMENTS.

The following checks upon the Auditor of State were issued to the several Superintendents of canal repairs and others, on account of the maintenance and repairs of canals, salaries, etc., in payment of the itemized bills filed in the office of the Auditor of State, copies of which are incorporated in this report under the head of "Abstracts of Money Paid Out," showing to whom, for what purpose and the fund from which said accounts were paid, to-wit:

ON ACCOUNT OF THE MIAMI AND ERIE CANAL.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1905.			
Dec. 12	Chas. Cooper	M. and E. Canal.....	\$1,900 00
12	John O'Connor	M. and E. Canal.....	1,900 00
12	H. W. Meacham.....	M. and E. Canal.....	1,800 00
12	Chas. Cooper.....	Locks Cincinnati to Dayton.....	1,103 69
12	Chas. Cooper.....	Aqueducts Cincinnati to Dayton.	572 79
12	John O'Connor	Aqueduct Mad River.....	450 75
12	John O'Connor	Repairing banks Lewistown Res..	1,290 09
12	John O'Connor	Repairing banks Lewistown Res..	993 34
12	H. W. Meacham.....	Locks Dayton to Toledo.....	482 04
12	H. W. Meacham.....	Dynamiting cases	4,681 67
1906.			
Jan. 9	Chas. Cooper	M. and E. Canal.....	824 00
9	John O'Connor	M. and E. Canal.....	824 00
9	H. W. Meacham.....	M. and E. Canal.....	824 00
9	Chas. Cooper	Locks Cincinnati to Dayton.....	310 88
9	John O'Connor	Mad River Aqueduct.....	249 62
9	John O'Connor	Repairing banks Lewistown Res..	1,007 61
Feb. 13	Chas. Cooper	M. and E. Canal.....	3,900 00
13	John O'Connor	M. and E. Canal.....	2,200 00
13	H. W. Meacham	M. and E. Canal.....	3,200 00
13	Chas. Cooper	Locks Cincinnati to Dayton.....	323 51
13	John O'Connor	Repairing banks Lewistown Res..	179 18
Mch. 13	Chas. Cooper	M. and E. Canal.....	1,000 00
13	John O'Connor	M. and E. Canal.....	937 96
13	H. W. Meacham.....	M. and E. Canal.....	1,000 00
Apr. 10	Chas. Cooper	M. and E. Canal.....	1,085 86
10	John O'Connor	M. and E. Canal.....	918 86
10	H. W. Meacham.....	M. and E. Canal.....	1,319 23
10	Chas. Cooper	M. and E. Canal.....	1,000 00
10	John O'Connor	M. and E. Canal.....	1,000 00
10	H. W. Meacham.....	M. and E. Canal.....	1,000 00
10	John O'Connor	Repairing banks Lewistown Res..	403 81
10	John O'Connor	Aqueduct Mad River.....	10 48
10	H. W. Meacham.....	Repairing banks St. Marys Res..	44 14
10	Huston & Cleveland..	Aqueduct Miami River.....	4,750 00
10	Pinkerton Nat. D. Agt.	Dynamiting cases	318 33
May 8	Chas. Cooper	M. and E. Canal.....	1,423 69
8	Chas. Cooper	M. and E. Canal.....	750 00
8	John O'Connor	M. and E. Canal.....	1,399 34
8	H. W. Meacham.....	M. and E. Canal.....	2,108 92
8	W. C. Wykoff.....	M. and E. Canal.....	41 00
8	E. E. Booton.....	M. and E. Canal.....	41 00

ANNUAL REPORT

ON ACCOUNT OF THE MIAMI AND ERIE CANAL — Concluded.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1900.			
8	C. W. Diehl.....	M. and E. Canal.....	37 80
8	John O'Connor	Repairing banks Lewistown Res..	879 75
June 12	Chas. Cooper	M. and E. Canal.....	7,000 00
12	Chas. Cooper	M. and E. Canal.....	1,650 00
12	John O'Connor	M. and E. Canal.....	3,500 00
12	John O'Connor	M. and E. Canal.....	650 00
12	H. W. Meacham.....	M. and E. Canal.....	2,211 88
12	H. W. Meacham.....	M. and E. Canal.....	1,288 12
12	H. W. Meacham.....	M. and E. Canal.....	650 00
12	W. C. Wikoff.....	M. and E. Canal.....	125 00
12	E. E. Booton.....	M. and E. Canal.....	125 00
12	C. W. Diehl.....	M. and E. Canal.....	115 00
12	F. W. Schaub.....	M. and E. Canal.....	15 00
12	E. E. Booton.....	M. and E. Canal.....	9 40
12	John O'Connor	Repairing banks Lewistown Res..	13 22
12	John O'Connor	Aqueduct Miami River.....	127 25
12	Huston & Cleveland..	Aqueduct Miami River.....	2,500 00
July 10	Chas. Cooper	M. and E. Canal.....	600 00
10	John O'Connor	M. and E. Canal.....	600 00
10	John O'Connor	Aqueduct Miami River.....	372 75
10	H. W. Meacham.....	M. and E. Canal.....	600 00
Aug. 14	Chas. Cooper.....	M. and E. Canal.....	200 00
14	John O'Connor	M. and E. Canal.....	250 00
14	H. W. Meacham.....	M. and E. Canal.....	200 00
14	Huston & Cleveland..	Aqueduct Miami River.....	1,500 00
Sept. 14	John O'Connor	M. and E. Canal.....	400 00
14	John O'Connor	M. and E. Canal.....	200 00
14	Chas. Cooper	M. and E. Canal.....	600 00
14	H. W. Meacham.....	M. and E. Canal.....	600 00
Oct. 8	Chas. Cooper	M. and E. Canal.....	600 00
8	John O'Connor	M. and E. Canal.....	600 00
8	H. W. Meacham.....	M. and E. Canal.....	600 00
Nov. 13	Chas. Cooper	M. and E. Canal.....	4,000 00
13	John O'Connor	M. and E. Canal.....	4,000 00
13	H. W. Meacham.....	M. and E. Canal.....	4,000 00
		Total	\$90,389 96

RECAPITULATION.

Chas. Cooper, Supt.....	\$28,844 42
John O'Connor, Supt.....	25,358 01
H. W. Meacham, Supt.....	26,610 00
Huston & Cleveland.....	8,750 00
Pinkerton Nat'l Detective Agency.....	318 33
Wheeler C. Wikoff.....	166 00
E. E. Booton.....	175 40
C. W. Diehl.....	152 80
F. W. Schaub.....	15 00
Total	\$90,389 96

ON ACCOUNT OF RECONSTRUCTION MIAMI AND ERIE CANAL BE-
TWEEN DAYTON AND CINCINNATI AS PROVIDED FOR
BY THE 77TH GENERAL ASSEMBLY.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.			
May 8	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	\$584 64
June 12	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	1,272 93
July 10	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	1,433 21
Aug. 14	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	1,595 13
Sept. 14	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	5,920 60
Oct. 9	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	10,440 18
Nov. 13	James C. Wonders....	Reconstruction M. & E. Dayton to Cincinnati	9,597 60
13	Capitol Construction Co	Reconstruction M. & E. Dayton to Cincinnati	4,000 00
		Total	\$34,844 29

RECAPITULATION.

James C. Wonders, reconstruction M. & E., Dayton to Cinti.....	\$30,844 29
Capitol Construction Co., reconstruction M. & E., Dayton to Cinti....	4,000 00
Total	\$34,844 29

ON ACCOUNT OF REBUILDING MIAMI AND ERIE CANAL NORTH OF
DAYTON, AS PROVIDED FOR BY THE 77TH GEN-
ERAL ASSEMBLY.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.			
June 12	James C. Wonders....	Rebuilding M. & E. North of Dayton	\$119 75
July 10	James C. Wonders....	Rebuilding M. & E. North of Dayton	89 65
Aug. 14	James C. Wonders....	Rebuilding M. & E. North of Dayton	127 87
Sept. 14	James C. Wonders....	Rebuilding M. & E. North of Dayton	- 382 04
Oct. 9	James C. Wonders....	Rebuilding M. & E. North of Dayton	4,976 93
Nov. 13	James C. Wonders....	Rebuilding M. & E. North of Dayton	5,406 37
		Total	\$11,102 61

RECAPITULATION.

James C. Wonders, rebuilding M. & E. Canal north of Dayton..... \$11,102 61

ON ACCOUNT OF THE NORTHERN DIVISION OF THE OHIO CANAL.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1905.			
Dec. 12	Chas. Hatch	Northern Division Ohio Canal...	\$2,017 68
12	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,481 07
1906.			
Jan. 9	Chas. Hatch	Northern Division Ohio Canal...	2,672 85
9	Chas. H. Geidel.....	Northern Division Ohio Canal...	666 49
Feb. 13	Chas. Hatch	Northern Division Ohio Canal...	1,345 99
13	Chas. H. Geidel.....	Northern Division Ohio Canal...	888 22
Mar. 13	Chas. Hatch	Northern Division Ohio Canal...	1,126 78
13	Chas. H. Geidel.....	Northern Division Ohio Canal...	804 23
Apr. 10	Chas. Hatch	Northern Division Ohio Canal...	3,028 41
10	Chas. H. Geidel.....	Northern Division Ohio Canal...	791 80
May 8	Chas. Hatch	Northern Division Ohio Canal...	1,975 60
8	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,555 14
June 12	Chas. Hatch	Northern Division Ohio Canal...	1,655 34
12	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,797 53
July 10	Chas. Hatch	Northern Division Ohio Canal...	1,746 70
10	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,521 65
10	W. C. Wikoff.....	Northern Division Ohio Canal...	125 00
10	E. E. Booton.....	Northern Division Ohio Canal...	125 00
10	Chas. W. Diehl.....	Northern Division Ohio Canal...	115 00

CN ACCOUNT OF THE NORTHERN DIVISION OF THE OHIO CANAL — Concluded.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1900.			
10	F. W. Schaub.....	Northern Division Ohio Canal...	10 00
10	W. C. Wikoff.....	Northern Division Ohio Canal...	9 10
10	Cols. Citizens Tel. Co.	Northern Division Ohio Canal...	10 00
Aug. 14	Chas. Hatch.....	Northern Division Ohio Canal...	2,121 75
14	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,645 00
14	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,236 94
14	W. C. Wikoff.....	Northern Division Ohio Canal...	153 70
14	E. E. Booton.....	Northern Division Ohio Canal...	153 70
14	Chas. W. Diehl.....	Northern Division Ohio Canal...	141 46
14	Franklin Toilet Co..	Northern Division Ohio Canal...	3 00
14	E. H. Sell & Co.....	Northern Division Ohio Canal...	4 50
14	F. W. Schaub.....	Northern Division Ohio Canal...	10 00
14	W. C. Wikoff.....	Northern Division Ohio Canal...	13 35
14	C. L. Hughes.....	Northern Division Ohio Canal...	11 50
14	E. E. Booton.....	Northern Division Ohio Canal...	32 80
14	Cent. Union Tel Co..	Northern Division Ohio Canal...	4 50
Sept. 14	Chas. Hatch.....	Northern Division Ohio Canal...	1,723 14
14	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,240 01
14	E. E. Booton.....	Northern Division Ohio Canal...	125 00
14	C. W. Diehl.....	Northern Division Ohio Canal...	125 00
14	A. H. Sawyer.....	Northern Division Ohio Canal...	125 00
14	E. E. Booton.....	Northern Division Ohio Canal...	13 97
14	F. W. Schaub.....	Northern Division Ohio Canal...	10 00
Oct. 9	Chas. Hatch.....	Northern Division Ohio Canal...	1,796 47
9	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,337 88
Nov. 13	Chas. Hatch.....	Northern Division Ohio Canal...	1,783 61
13	Chas. H. Geidel.....	Northern Division Ohio Canal...	1,207 36
		Total	\$40,489 22

RECAPITULATION.

Chas. Hatch, Supt	\$22,994 32
Chas. H. Geidel, Supt.....	16,173 32
Wheeler C. Wikoff.....	301 15
E. E. Booton.....	450 47
C. W. Diehl.....	381 47
F. W. Schaub.....	30 00
C. L. Hughes.....	11 50
Franklin Toilet Supply Company.....	3 00
Central Union Telephone Co.....	4 50
A. H. Sawyer.....	125 00
E. H. Sell & Co.....	4 50
Columbus Citizens Telephone Co.....	10 00
Total	\$40,489 22

ON ACCOUNT OF THE SOUTHERN DIVISION OF THE OHIO CANAL.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1905.			
Dec. 12	H. R. Morris.....	Southern Division Ohio Canal....	\$707 76
12	H. R. Morris.....	Southern Division Ohio Canal....	878 71
1906.			
Jan. 9	H. R. Morris.....	Southern Division Ohio Canal....	1,152 49
Feb. 13	H. R. Morris.....	Southern Division Ohio Canal....	896 73
13	H. R. Morris.....	Southern Division Ohio Canal....	21 29
Mar. 13	H. R. Morris.....	Southern Division Ohio Canal....	831 23
Apr. 10	H. R. Morris.....	Southern Division Ohio Canal....	883 01
May 8	H. R. Morris.....	Southern Division Ohio Canal....	2,636 08
June 12	H. R. Morris.....	Southern Division Ohio Canal....	4,047 23
July 10	H. R. Morris.....	Southern Division Ohio Canal....	3,799 72
Aug. 14	H. R. Morris.....	Southern Division Ohio Canal....	2,550 75
Sept. 14	H. R. Morris.....	Southern Division Ohio Canal....	2,187 40
Oct. 9	H. R. Morris.....	Southern Division Ohio Canal....	1,072 51
9	E. E. Booton.....	Southern Division Ohio Canal....	15 60
9	F. W. Schaub.....	Southern Division Ohio Canal....	10 00
9	A. H. Sawyer.....	Southern Division Ohio Canal....	125 00
9	C. W. Diehl.....	Southern Division Ohio Canal....	125 00
9	E. E. Booton.....	Southern Division Ohio Canal....	125 00
Nov. 13	H. R. Morris.....	Southern Division Ohio Canal....	985 11
13	E. E. Booton.....	Southern Division Ohio Canal....	125 00
13	Chas. W. Diehl.....	Southern Division Ohio Canal....	125 00
13	Franklin Toilet Co....	Southern Division Ohio Canal....	3 00
13	Crystal Ice Co.....	Southern Division Ohio Canal....	10 00
13	E. E. Booton.....	Southern Division Ohio Canal....	11 60
13	F. W. Schaub.....	Southern Division Ohio Canal....	10 00
Total			\$23,335 22

RECAPITULATION.

H. R. Morris, Southern Division Ohio Canal.....	\$22,650 02
E. E. Booton, Southern Division Ohio Canal.....	277 20
C. W. Diehl, Southern Division Ohio Canal.....	250 00
A. H. Sawyer, Southern Division Ohio Canal.....	125 00
F. W. Schaub, Southern Division Ohio Canal.....	20 00
Franklin Toilet Sup. Co., Southern Division Ohio Canal.....	3 00
The Crystal Ice Co., Southern Division Ohio Canal.....	10 00
Total	\$22,935 22

ON ACCOUNT OF RECONSTRUCTION NORTHERN DIVISION, OHIO
AND ERIE CANAL BETWEEN CLEVELAND AND DRESDEN, AS
PROVIDED BY THE 77TH GENERAL ASSEMBLY.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.			
June 12	John A. Hanlon.....	Reconstruction Ohio Canal.....	\$5,143 57
July 10	John A. Hanlon.....	Reconstruction Ohio Canal.....	4,233 81
Aug. 14	John A. Hanlon.....	Reconstruction Ohio Canal.....	3,822 89
Sept. 14	John A. Hanlon.....	Reconstruction Ohio Canal.....	3,427 19
Oct. 9	John A. Hanlon.....	Reconstruction Ohio Canal.....	14,421 29
Nov. 13	John A. Hanlon.....	Reconstruction Ohio Canal.....	16,731 30
		Total	\$47,780 05

RECAPITULATION.

John A. Hanlon, reconstruction Ohio Canal north of Dresden..... \$47,780 05

ON ACCOUNT OF IMPROVEMENTS OF NORTHERN DIVISION OF THE
OHIO CANAL IN ACCORDANCE WITH SENATE BILL NO. 258.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1905.			
Dec. 12	Atlantic Foundry Co..	Improvem't Nor. Div. Ohio Canal.	\$307 63
12	Cleveland B. Sup. Co.	Improvem't Nor. Div. Ohio Canal.	961 00
12	G. W. Carmichael & Co	Improvem't Nor. Div. Ohio Canal.	1,117 78
12	G. W. Carmichael & Co	Improvem't Nor. Div. Ohio Canal.	1,462 25
12	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	1,379 26
12	McCourt & Ely.....	Improvem't Nor. Div. Ohio Canal.	4,653 06
12	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	3,314 20
12	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	3,629 67
1906.			
Jan. 9	Atlantic Foundry Co.	Improvem't Nor. Div. Ohio Canal.	234 26
9	Geo. W. Carmichael & Co	Improvem't Nor. Div. Ohio Canal.	1,604 97
9	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	3,683 88
9	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	471 29
9	McCourt & Ely.....	Improvem't Nor. Div. Ohio Canal.	1,359 22
9	Geo. W. Carmichael & Co.....	Improvem't Nor. Div. Ohio Canal.	408 68
9	Alexander Adamson ..	Improvem't Nor. Div. Ohio Canal.	160 73
9	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,810 67
Feb. 13	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	4,330 04
Mar. 13	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	1,350 52
13	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	3,000 00
13	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	1,266 25
13	McCourt & Ely.....	Improvem't Nor. Div. Ohio Canal.	2,205 32
13	Geo. W. Carmichael & Co	Improvem't Nor. Div. Ohio Canal.	139 26
13	Atlantic Foundry Co..	Improvem't Nor. Div. Ohio Canal.	109 80
13	Geo. W. Carmichael & Co	Improvem't Nor. Div. Ohio Canal.	1,674 16
13	Alexander Adamson ..	Improvem't Nor. Div. Ohio Canal.	499 43
13	The King Bridge Co..	Improvem't Nor. Div. Ohio Canal.	2,500 00
13	Clifton Bros	Improvem't Nor. Div. Ohio Canal.	960 00
Apr. 10	The King Bridge Co..	Improvem't Nor. Div. Ohio Canal.	1,500 00
10	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	621 00
10	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	99 00
10	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	963 39
May 8	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,070 51
8	Alexander Adamson ..	Improvem't Nor. Div. Ohio Canal.	123 30
8	Atlantic Foundry Co..	Improvem't Nor. Div. Ohio Canal.	127 00
8	The King Bridge Co..	Improvem't Nor. Div. Ohio Canal.	1,136 83
8	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	3,001 40
8	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	861 98
8	Clifton Bros	Improvem't Nor. Div. Ohio Canal.	453 00
8	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	1,302 35
8	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	2,729 63
8	McCourt & Ely.....	Improvem't Nor. Div. Ohio Canal.	980 00
June 12	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,780 97
12	The King Bridge Co..	Improvem't Nor. Div. Ohio Canal.	500 00
12	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	2,129 05
12	G. W. Carmichael.....	Improvem't Nor. Div. Ohio Canal.	1,892 55
12	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	2,539 87
12	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	1,602 45
12	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	2,457 74
July 10	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,605 04

ON ACCOUNT OF IMPROVEMENTS OF NORTHERN DIVISION OF THE OHIO CANAL —
Concluded.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.			
10	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	1,470 86
10	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	2,042 01
10	Alexander Adamson ..	Improvem't Nor. Div. Ohio Canal.	74 34
Aug. 14	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,796 57
14	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	1,222 24
14	D. E. Sullivan.....	Improvem't Nor. Div. Ohio Canal.	1,653 35
14	D. E. Sullivan.....	Improvem't Nor. Div. Ohio Canal.	500 00
Sept. 14	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,228 47
14	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	2,500 00
14	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	1,000 00
14	D. E. Sullivan & Son..	Improvem't Nor. Div. Ohio Canal.	500 00
14	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	764 95
14	Cleveland B. Sup. Co..	Improvem't Nor. Div. Ohio Canal.	500 00
Oct. 9	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	1,877 94
9	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	500 00
9	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	1,259 88
9	M. J. Walsh.....	Improvem't Nor. Div. Ohio Canal.	190 50
9	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	500 00
Nov. 13	Chas. Hatch	Improvem't Nor. Div. Ohio Canal.	2,268 04
13	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	1,314 62
13	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	800 00
13	P. T. McCourt.....	Improvem't Nor. Div. Ohio Canal.	1,000 00
13	McGarry & McGowan.	Improvem't Nor. Div. Ohio Canal.	500 00
13	Cleveland B. Sup. Co.	Improvem't Nor. Div. Ohio Canal.	135 64
13	A. A. Likens.....	Improvem't Nor. Div. Ohio Canal.	741 72
13	D. E. Sullivan & Son.	Improvem't Nor. Div. Ohio Canal.	181 26
		Total	\$106,592 78

RECAPITULATION.

Chas. Hatch, Supt.....	\$29,810 83
The Cleveland Builders Supply Co.....	1,596 64
G. W. Carmichael & Co.....	8,299 65
McGarry & McGowan.....	15,104 41
McCourt & Ely.....	9,197 60
P. T. McCourt.....	13,410 42
The Atlantic Foundry Company.....	778 69
Alexander Adamson	857 80
The King Bridge Company.....	5,636 83
Clifton Bros.	1,413 00
D. E. Sullivan & Son.....	11,801 18
A. A. Likens	8,495 23
M. J. Walsh	190 50
Total	\$106,592 78

CHECKS ISSUED BY THE PRESIDENT OF THE BOARD OF PUBLIC
WORKS ON FUNDS APPROPRIATED ANNUALLY FOR THE PAY-
MENT OF OFFICERS' SALARIES, CONTINGENT EXPENSES, ETC.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1905.			
Dec. 12	Wm. Kirtley, Jr.	Member's salaries	\$66 66
	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins.	Member's salaries as Supts.	125 00
	R. B. Crawford.	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's traveling expenses.	50 00
	Geo. H. Watkins.	Member's traveling expenses.	50 00
	R. B. Crawford.	Member's traveling expenses.	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 33
	W. H. McClintock.	Secretary's salary	125 00
	R. Sullivant.	Clerk's salary	58 33
1906.			
Jan. 9	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins.	Member's salaries as Supts.	125 00
	R. B. Crawford.	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's traveling expenses.	50 00
	Geo. H. Watkins.	Member's traveling expenses.	50 00
	R. B. Crawford.	Member's traveling expenses.	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 33
	W. H. McClintock.	Secretary's salary	125 00
	R. Sullivant.	Clerk's salary	58 33
Feb. 13	Wm. Kirtley, Jr.	Member's salaries	66 74
	Geo. H. Watkins.	Member's salaries	66 74
	R. B. Crawford.	Member's salaries	66 74
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins.	Member's salaries as Supts.	125 00
	R. B. Crawford.	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's traveling expenses.	50 00
	Geo. H. Watkins.	Member's traveling expenses.	50 00
	R. B. Crawford.	Member's traveling expenses.	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 37
	W. H. McClintock.	Secretary's salary	125 00
	R. Sullivant.	Clerk's salary	58 37
Mar. 13	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins.	Member's traveling expenses.	50 00
	R. B. Crawford.	Member's traveling expenses.	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses.	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 33
	W. H. McClintock.	Secretary's salary	125 00
	R. Sullivant.	Clerk's salary	58 33
	F. W. Schaub.	Contingent expenses (salary)	30 00
	F. W. Schaub.	Contingent expenses (stamps)	10 00
	Remington T. Co.	Contingent expenses	75
Apr. 10	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66

CHECKS ISSUED BY THE PRESIDENT OF THE BOARD OF PUBLIC WORKS — Continued.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins.	Member's traveling expenses.....	50 00
	R. B. Crawford.	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses.....	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 33
	W. H. McClintock.	Secretary's salary	62 50
	W. E. Thompson.	Secretary's salary	62 50
	R. Sullivan.	Clerk's salary	58 33
	F. W. Schaub.	Contingent expenses (salary).....	30 00
	F. W. Schaub.	Contingent expenses	8 00
	F. W. Schaub.	Contingent expenses	2 00
May 8	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins.	Member's salaries as Supts.	375 00
	R. B. Crawford.	Member's salaries as Supts.	375 00
	Wm. Kirtley, Jr.	Member's salaries as Supts.	375 00
	Geo. H. Watkins.	Member's traveling expenses.....	50 00
	R. B. Crawford.	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses.....	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00
	Samuel Bachtell.	Engineer's salaries	133 33
	W. E. Thompson.	Secretary's salary	125 00
	R. Sullivan.	Clerk's salary	58 33
	W. U. Tel Co.	Contingent expenses	22 49
	Cent. Union Tel.	Contingent expenses	45 80
	W. U. Tel Co.	Contingent expenses	51
	Rem. Typewriter Co..	Contingent expenses	75.
	W. H. Anderson Co..	Contingent expenses	12 00
	The C. P. & E. Co....	Contingent expenses	1 45
	The Crystal Ice Co..	Contingent expenses	15 43
	Weiman Mach. Works.	Contingent expenses	1 75
	Col. Citizens Tel. Co.	Contingent expenses	10 00
	Rucher Eng. Co.	Contingent expenses	2 02
	The Terry Eng. Co..	Contingent expenses	80
	A. H. Smythe.	Contingent expenses	2 00
	U. S. Telephone Co..	Contingent expenses	11 80
	Fred J. Heer.	Contingent expenses	16 00
	Union Nat'l Bank.	Contingent expenses	10 00
	D. C. Day.	Contingent expenses	17 00
	U. S. Express Co..	Contingent expenses	2 55
	Wells Fargo Exp. Co..	Contingent expenses	1 45
	Adams Express Co..	Contingent expenses	90
	F. W. Schaub.	Contingent expenses (salary).....	30 00
	F. W. Schaub.	Contingent expenses (stamps).....	10 00
	U. S. Telephone Co..	Contingent expenses	2 30
	E. E. Booton.	Contingent expenses	16 42
June 12	Geo. H. Watkins.	Member's salaries	66 66
	R. B. Crawford.	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins.	Member's salaries as Supts.	125 00
	R. B. Crawford.	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins.	Member's traveling expenses.....	50 00
	R. B. Crawford.	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses.....	50 00
	Chas. E. Perkins.	Engineer's salaries	250 00

CHECKS ISSUED BY THE PRESIDENT OF THE BOARD OF PUBLIC WORKS — Continued.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.			
	Samuel Bachtell	Engineer's salaries	133 33
	W. E. Thompson.....	Secretary's salary	125 00
	R. Sullivan	Clerk's salary	58 33
	F. W. Schaub.....	Contingent expenses (salary)....	30 00
	W. U. Tel Co.....	Contingent expenses	27 62
	Am. Tel Co.....	Contingent expenses	75
	American Express Co.	Contingent expenses	35
	J. B. Schroeder & Co..	Contingent expenses (key).....	25
	F. W. Schaub.....	Contingent expenses (stamps)....	10 00
	Col. Citizens' Tel Co..	Contingent expenses	5 05
	Bertha A. Young.....	Contingent expenses	4 50
July 10	Geo. H. Watkins.....	Member's salaries	66 66
	R. B. Crawford.....	Member's salaries	66 66
	Wm. Kirtley, Jr.....	Member's salaries	66 66
	Geo. H. Watkins.....	Member's salaries as Supts.....	125 00
	R. B. Crawford.....	Member's salaries as Supts.....	125 00
	Wm. Kirtley, Jr.....	Member's salaries as Supts.....	125 00
	Geo. H. Watkins.....	Member's traveling expenses.....	50 00
	R. B. Crawford.....	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.....	Member's traveling expenses.....	50 00
	Chas. E. Perkins.....	Engineer's salaries	250 00
	Samuel Bachtell	Engineer's salaries	133 33
	W. E. Thompson.....	Secretary's salary	125 00
	R. Sullivan	Clerk's salary	58 33
	F. W. Schaub.....	Contingent expenses (salary)....	30 00
	Margaret Martin	Contingent expenses	2 55
	F. W. Schaub.....	Contingent expenses	12 00
	W. U. Tel. Co.....	Contingent expenses	20
	Cent. Union Tel Co..	Contingent expenses	7 50
	Cent. Union Tel Co..	Contingent expenses	1 90
	F. W. Schaub.....	Contingent expenses	20 00
	Adams Express Co....	Contingent expenses	50
	Samuel Bachtell	Contingent expenses	2 47
	Herman Borchers	Contingent expenses	20 00
	Cols. Citizens Tel. Co.	Contingent expenses	10 00
	U. S. Tel. Co.....	Contingent expenses	5 55
	F. W. Schaub.....	Contingent expenses (stamps)....	5 00
	Bertha A. Young.....	Contingent expenses	2 50
Aug. 14	Geo. H. Watkins.....	Member's salaries	66 66
	R. B. Crawford.....	Member's salaries	66 66
	Wm. Kirtley, Jr.....	Member's salaries	66 66
	Geo. H. Watkins.....	Member's salaries as Supts.....	125 00
	R. B. Crawford.....	Member's salaries as Supts.....	125 00
	Wm. Kirtley, Jr.....	Member's salaries as Supts.....	125 00
	Geo. H. Watkins.....	Member's traveling expenses.....	50 00
	R. B. Crawford.....	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.....	Member's traveling expenses.....	50 00
	Chas. E. Perkins.....	Engineer's salaries	250 00
	Samuel Bachtell	Engineer's salaries	133 33
	W. E. Thompson.....	Secretary's salary	125 00
	Flora M. Sparrow....	Clerk's salary	58 33
	F. W. Schaub.....	Contingent expenses (salary)....	30 00
	U. S. Tel. Co.....	Contingent expenses	3 80
	W. U. Tel. Co.....	Contingent expenses	18 23
	Central Union Tel. Co.	Contingent expenses	4 10
	Cherrington P. & E. Co	Contingent expenses	1 20
	American Express Co.	Contingent expenses	35

BOARD OF PUBLIC WORKS.

CHECKS ISSUED BY THE PRESIDENT OF THE BOARD OF PUBLIC WORKS — Continued.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.	Adams Express Co...	Contingent expenses	30
	Samuel Bachtell	Contingent expenses	60
	Rem. Typewriter Co...	Contingent expenses	40
	Chas. W. Diehl	Contingent expenses (stamps)	10 00
	Chas. W. Diehl	Contingent expenses (stamps)	5 00
Sept. 14	Geo. H. Watkins	Member's salaries	66 66
	R. B. Crawford	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins	Member's salaries as Supts.	125 00
	R. B. Crawford	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins	Member's traveling expenses	50 00
	R. B. Crawford	Member's traveling expenses	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses	50 00
	Chas. E. Perkins	Engineer's salaries	250 00
	Samuel Bachtell	Engineer's salaries	133 33
	W. E. Thompson	Secretary's salary	125 00
	Flora M. Sparrow	Clerk's salary	58 33
	F. W. Schaub	Contingent expenses (salary)	30 00
	Geo. C. Mustain	Contingent expenses	5 00
	F. W. Schaub	Contingent expenses (stamps)	10 00
	W. U. Tel. Co.	Contingent expenses	1 08
	Cent. U. Tel. Co.	Contingent expenses	4 05
	Cols. Hardware Co...	Contingent expenses	1 30
	Smith & Isennagle ...	Contingent expenses	6 80
	Adams Ex. Co.	Contingent expenses	30
	W. U. Tel. Co.	Contingent expenses	7 27
	U. S. Tel. Co.	Contingent expenses	1 30
	F. W. Schaub	Contingent expenses	6 50
	Chas. W. Diehl	Contingent expenses	17 50
	Samuel Bachtell	Contingent expenses	1 25
	Cent. Union Tel. Co..	Contingent expenses	1 20
Oct. 9	Geo. H. Watkins	Member's salaries	66 66
	R. B. Crawford	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66
	Geo. H. Watkins	Member's salaries as Supts.	125 00
	R. B. Crawford	Member's salaries as Supts.	125 00
	Wm. Kirtley, Jr.	Member's salaries as Supts.	125 00
	Geo. H. Watkins	Member's traveling expenses	50 00
	R. B. Crawford	Member's traveling expenses	50 00
	Wm. Kirtley, Jr.	Member's traveling expenses	50 00
	Chas. E. Perkins	Engineer's salaries	250 00
	Samuel Bachtell	Engineer's salaries	133 33
	W. E. Thompson	Secretary's salary	125 00
	Flora M. Sparrow	Clerk's salary	58 33
	F. W. Schaub	Contingent expenses (salary)	30 00
	F. W. Schaub	Contingent expenses (stamps)	10 00
	J. L. Trauger Co.	Contingent expenses	75
	Rem. Typewriter Co..	Contingent expenses	75
	Columbus Ice Co.	Contingent expenses	7 70
	Cent. Union Tel Co...	Contingent expenses	16 50
	Chas. W. Diehl	Contingent expenses	13 30
	Adams Express Co...	Contingent expenses	90
	Cols. Citizens Tel Co.	Contingent expenses	10 00
	P. O. Box Rent	Contingent expenses	2 00
	Chas. W. Diehl	Contingent expenses (stamps)	10 00
Nov. 13	Geo. H. Watkins	Member's salaries	66 66
	Wm. Kirtley, Jr.	Member's salaries	66 66

CHECKS ISSUED BY THE PRESIDENT OF THE BOARD OF PUBLIC WORKS — Concluded.

Date.	To Whom Issued.	Name of Appropriation.	Amount.
1906.	Geo. H. Watkins.....	Member's salaries as Supts.....	125 00.
	Wm. Kirtley, Jr.....	Member's salaries as Supts.....	125 00
	Geo. H. Watkins.....	Member's traveling expenses.....	50 00
	Wm. Kirtley, Jr.....	Member's traveling expenses.....	50 00
	Chas. E. Perkins.....	Engineer's salaries	250 00
	Samuel Bachtell.....	Engineer's salaries	133 33
	W. E. Thompson.....	Secretary's salary	125 00
	Flora M. Sparrow.....	Clerk's salary	58 33
	F. W. Schaub.....	Contingent expenses (salary)....	30 00
	Crystal Ice Co.....	Contingent expenses	11 66
	W. U. Tel. Co.....	Contingent expenses	16 67
	Adams Express Co....	Contingent expenses	1 05
	Cent. Union Tel Co..	Contingent expenses	4 40
	F. W. Schaub.....	Contingent expenses	7 00
	Chas. W. Diehl.....	Contingent expenses	5 00
	U. S. Express Co.....	Contingent expenses	85
	U. S. Tel. Co.....	Contingent expenses	4 70
	Columbus Ice Co.....	Contingent expenses	2 90
	American Express Co.	Contingent expenses	25
	Postal Tel. Cable Co..	Contingent expenses	35
	F. W. Schaub.....	Contingent expenses	10 00
		Total	\$16,135 46

RECAPITULATION.

Geo. H. Watkins, salary and traveling expenses.....	\$2,900 00
Wm. Kirtley, Jr., salary and traveling expenses.....	2,900 00
Richard B. Crawford, salary and traveling salesman.....	2,658 34
Chas. E. Perkins salary as Engineer.....	3,000 00
Samuel Bachtell, salary as Asst. Engineer and expenses.....	1,604 32
W. H. McClintock, salary as Secretary.....	562 50
W. E. Thompson, salary as Secretary.....	937 50
R. Sullivant, salary as Clerk.....	466 68
Flora M. Sparrow, salary as Clerk.....	233 32
F. W. Schaub, salary as Messenger, contingent.....	390 50
E. E. Booton, expenses, contingent.....	16 42
Margaret Martin, contingent, service.....	2 55
Central Union Telephone Co., contingent, service.....	44 65
Herman Borchers, contingent, service.....	20 00
Columbus Ice Co., contingent, supplies (ice).....	10 60
Postal Telegraph-Cable Co., contingent, service.....	35
Columbus Hardware Company, contingent, supplies.....	1 30
J. L. Trauger & Co., contingent, service.....	75
Weiman Machine Works, contingent, service.....	1 75
Terry Engraving Co., contingent, service.....	80
Bucher Engraving Co., contingent, service.....	2 02
Union National Bank, contingent, service.....	10 00
D. C. Day, contingent, service.....	17 00

American Express Co., contingent service.....	95
Adams Express Co., contingent, service.....	3 95
Bertha Young, contingent, service.....	7 00
Wells Fargo Express Co., contingent, service.....	1 45
United States Express Co., contingent, service.....	3 40
J. S. Schroder & Co., contingent, service	25
Chas. W. Diehl, contingent, supplies and expenses.....	60 80
The Crystal Ice Co., contingent, supplies.....	27 09
A. H. Smythe, contingent, supplies.....	2 00
Columbus Citizens Telephone Co., contingent, service.....	35 05
W. H. Anderson & Co., contingent, supplies.....	12 00
Cherrington Printing & Engraving Co., contingent, supplies.....	2 65
American Telephone Co.....	75
Post Office box rent, contingent.....	2 00
United States Telephone Co., contingent, service.....	75 25
Fred J. Heer, contingent, supplies.....	16 00
Remington Typewriter Co., contingent, supplies.....	2 65
Western Union Telegraph Co., contingent, service.....	94 07
Smith & Isennagle, contingent, supplies.....	6 80
Total	<u>\$16,135 46</u>

The foregoing checks are charged to the following accounts:

Miami & Erie Canal.....	\$90,389 96
Miami & Erie Canal, reconstruction Cincinnati to Dayton.....	34,844 29
Miami & Erie Canal, rebuilding north of Dayton.....	11,102 61
Ohio Canal, Northern Division.....	40,489 22
Ohio Canal, Southern Division.....	23,335 22
Ohio Canal, improvement Northern Division.....	106,592 78
Ohio Canal, reconstruction Cleveland to Dresden.....	47,780 05
Members' salaries	2,333 34
Members' salaries as Superintendents.....	4,375 00
Members' traveling expenses.....	1,750 00
Engineers' salaries	4,600 00
Secretary's salary	1,500 00
Clerk's salary	700 00
Contingent expenses	877 12
Total	<u>\$370,669 59</u>
Balance on hand November 15, 1906.....	219,061 96
Grand total	<u>\$589,731 55</u>

The balance in the different funds on November 15th, 1906, is as follows:

Miami & Erie Canal.....	\$261 86
Ohio Canal, Northern Division.....	19,579 86
Ohio Canal, Southern Division.....	7,931 84
Members' salaries	666 84
Members' salaries as Superintendents.....	1,250 00
Members' traveling expenses.....	500 00
Engineer's salaries	1,150 03

Secretary's salary	375 00
Clerk's salary	175 03
Contingent expenses	322 96
Ohio Canal, improvement Northern Division.....	19,555 16
Ohio Canal, reconstruction Cleveland to Dresden.....	52,219 95
Miami & Erie Canal, reconstruction Cinti. to Dayton.....	65,155 71
Miami & Erie Canal, rebuilding north of Dayton.....	38,897 39
Repairing aqueduct over Miami River.....	750 00
Repairing damage by floods, M. & E. Canal.....	10,270 33
<hr/>	
Total	\$219,061 96

TABLE SHOWING THE EXPENDITURES EACH YEAR FOR SUPERINTENDENCE, REPAIRS AND COST OF COLLECTION ON THE OHIO CANALS, FROM 1827 TO 1906, INCLUSIVE.

Year.	Ohio Canal.	Miami and Erie Canal.	Hocking Canal.	Walhonding Canal.	Total on all the Canals.
1827	\$700 00				\$700 00
1828	900 00				900 00
1829	1,100 00	\$11,529 59			12,629 59
1830	1,300 00	7,138 05			8,438 05
1831	2,100 00	7,155 06			9,255 06
1832	3,600 00	9,937 91			13,537 91
1833	33,740 00	7,643 83			41,383 83
1834	79,713 68	10,165 37			89,879 05
1835	81,711 15	19,152 57			100,863 72
1836	91,402 26	30,993 77			122,396 03
1837	123,463 22	49,231 91			172,695 13
1838	202,248 30	35,357 25			237,605 55
1839	204,709 65	47,491 19			252,200 84
1840	122,249 65	25,053 55			147,303 20
1841	133,454 53	53,462 55			186,917 08
1842	139,165 87	23,560 70			162,726 57
1843	126,046 24	36,826 05			162,872 29
1844	122,052 21	37,081 55		\$1,238 10	160,371 86
1845	126,274 23	53,511 52	\$5,580 04	3,137 61	188,503 40
1846	78,453 09	115,668 03	5,105 56	1,483 56	200,690 24
1847	120,728 24	107,380 25	8,067 32	5,155 59	241,331 40
1848	137,803 28	132,050 59	17,826 17	1,875 53	289,555 27
1849	120,283 14	259,706 84	10,712 85	2,523 57	393,206 40
1850	124,754 57	151,346 57	12,201 14	2,066 63	390,388 91
1851	137,262 50	179,311 73	8,376 88	4,351 60	329,302 61
1852	112,367 52	270,471 18	14,540 85	3,064 32	400,443 87
1853	142,281 71	269,435 44	9,088 61	2,151 53	422,957 29
1854	117,847 89	216,371 97	10,867 31	1,796 85	346,884 02
1855	106,145 05	233,107 57	7,741 98	1,169 61	348,164 21
1856	120,299 54	236,193 62	41,872 86	12 14	398,378 16
1857	125,545 15	172,047 70	29,399 32	5 84	327,098 01
1858	155,497 30	157,401 30	26,745 93	651 35	340,295 88
1859	96,407 58	159,813 90	15,389 99	2,529 65	274,141 12
1860	180,858 97	148,514 64	12,124 17	4,313 19	345,810 97
1861	36,534 70	69,697 27	6,336 80	2,004 56	114,573 33
1862	5,036 69	1,025 74	375 00		6,437 43
1863	2,915 37	1,050 00	694 14		4,659 51
1864	2,419 02	11 90			2,430 92
1865	2,394 24	5,472 66			7,856 90
1866	3,733 34	2,144 14	378 79		6,256 27
1867	6,699 66	2,317 29			9,016 95
1868	9,533 33	998 18			10,531 51
1869	5,300 00	3,879 20			9,179 20
1870	3,067 38	13,601 79	968 00		17,637 17
1871	1,943 96	11,583 75	78 18		13,605 89
1872	4,844 04	7,015 68			11,859 72
1873	22,948 78	6,914 10			29,862 88
1874	1,919 03	11,319 35			13,238 38
1875	1,961 04	1,001 15			2,962 13
1876	2,097 16	14,325 87	900 00		17,323 03
1877	1,961 04	2,019 78	2,719 25	459 84	7,159 91

TABLE SHOWING THE EXPENDITURES EACH YEAR FOR SUPERINTENDENCE, REPAIRS
AND COST OF COLLECTION ON THE OHIO CANALS, FROM 1827 TO
1906, INCLUSIVE. — Concluded.

Year.	Ohio Canal.	Miami and Erie Canal.	Hocking Canal.	Walbonding Canal.	Total on all the Canals.
1878	40,282 39	49,717 78	8,597 88	676 09	99,274 14
1879	68,269 14	82,547 69	9,833 13	473 85	161,123 81
1880	85,434 94	108,972 95	10,830 05	.....	205,237 94
1881	\$88,178 10	\$86,279 87	\$11,430 24	.....	\$185,888 21
1882	82,102 22	101,769 14	8,674 36	400 00	192,945 72
1883	92,666 58	47,363 79	34,770 43	.....	174,804 80
1884	122,644 86	89,596 78	17,684 63	489 56	230,415 83
1885	103,180 87	98,449 55	7,458 13	1,511 74	210,600 29
1886	87,046 74	88,935 64	10,237 76	10,630 72	196,850 86
1887	103,281 89	71,431 06	5,529 32	4,578 62	184,820 89
1888	123,690 87	98,838 94	7,379 67	2,095 18	232,004 66
1889	88,519 30	68,353 19	6,219 11	890 15	163,981 75
1890	80,512 64	79,137 41	4,318 79	945 12	164,913 96
1891	89,773 15	78,685 68	1,938 10	1,028 35	171,425 28
1892	85,027 86	97,434 09	5,731 51	860 66	189,054 12
1893	83,333 61	63,092 29	3,215 54	1,059 99	150,701 43
1894	105,490 39	118,627 21	4,396 65	2,843 27	231,357 52
1895	67,072 80	80,583 84	.....	.....	147,656 64
1896	77,912 51	100,218 95	.....	.....	178,131 46
1897	64,685 36	83,642 02	.....	.....	148,327 38
1898	85,532 60	94,417 65	.....	.....	179,950 25
1899	90,139 76	81,791 94	.....	.....	171,931 70
1900	95,974 07	74,773 49	.....	.....	170,747 56
1901	78,526 43	137,715 47	.....	.....	216,241 90
1902	70,315 96	105,625 45	.....	.....	175,941 41
1903	70,364 15	153,750 95	.....	.....	224,115 10
1904	75,975 79	95,631 75	.....	.....	171,607 54
1905	66,944 91	125,917 28	.....	.....	192,862 19
1906	63,824 44	90,389 96	.....	.....	154,212 40
Total ...	\$6,024,569 64	\$6,082,243 92	\$407,256 14	\$68,474 07	\$12,582,531 26

TABLE SHOWING THE RECEIPTS ON ALL CANALS, FROM 1827 TO 1906, INCLUSIVE.

Year.	Ohio Canal.	Miami and Erie Canal.	Hocking Canal.	Walhonding Canal.	Total on all the Canals.
1827	\$1,500 00				\$1,500 00
1828	4,000 00	\$8,042 70			12,042 70
1829	27,000 00	20,941 36			47,941 36
1830	30,498 93	30,082 33			60,576 26
1831	64,864 17	36,643 88			101,508 05
1832	79,982 48	36,847 47			116,829 95
1833	136,555 70	50,470 63			187,026 33
1834	164,488 98	50,040 99			214,529 97
1835	185,664 48	51,917 00			237,581 48
1836	211,823 32	50,116 52			261,939 84
1837	293,428 79	62,833 40			356,262 19
1838	382,135 96	82,863 09			464,999 05
1839	423,599 84	82,601 19			506,201 03
1840	452,122 03	74,612 88	\$5,953 69		532,688 60
1841	416,202 63	76,718 17	2,518 26		495,439 06
1842	387,442 22	71,460 34	4,215 07	\$610 17	463,727 80
1843	322,754 82	105,640 09	4,349 33	837 77	433,582 01
1844	343,710 99	139,844 25	5,286 44	1,976 78	490,818 46
1845	260,369 33	185,243 78	5,497 83	1,282 95	452,393 89
1846	336,339 69	233,527 24	5,351 52	1,190 71	576,409 16
1847	452,530 76	292,037 00	7,299 14	2,328 77	754,195 67
1848	418,530 37	325,297 32	8,746 98	1,933 01	754,507 68
1849	362,630 48	322,244 43	8,354 84	1,594 72	694,824 47
1850	388,905 93	311,589 27	8,077 44	2,549 04	711,021 68
1851	432,711 38	351,897 72	11,802 04	2,613 44	799,024 58
1852	308,937 40	308,984 56	9,957 25	1,880 80	629,758 01
1853	258,793 09	323,599 97	11,912 21	1,233 25	595,538 53
1854	192,837 18	280,115 80	12,597 18	223 66	485,773 82
1855	196,164 61	229,370 57	16,279 35	377 20	442,191 73
1856	189,506 55	119,947 02	11,118 29	501 89	321,073 75
1857	155,598 11	153,733 37	18,219 41	268 54	327,819 43
1858	108,771 84	153,928 09	16,367 54	798 46	279,865 93
1859	88,205 85	127,610 10	18,336 36	527 18	234,679 49
1860	90,968 39	159,476 64	16,494 28	789 70	267,729 01
1861	36,534 70	64,632 31	7,363 48	755 04	109,285 53
1862	5,036 69	4,664 00	285 67		9,986 36
1863		6,186 11			6,186 11
1864		3,531 66			3,531 66
1865	2,790 50	800 00			3,590 50
1866	2,199 50				2,199 50
1867	5,300 00				5,300 00
1868	1,200 00				1,200 00
1869		2,400 00			2,400 00
1870					
1871		311 00			311 00
1872					
1873					
1874					
1875					
1876					
1877					*401,003 09
1878	54,026 99	54,138 89	5,513 98	5,516 98	119,196 84
1879	76,609 21	112,090 32	8,185 69	275 32	197,160 54

TABLE SHOWING THE RECEIPTS ON ALL CANALS, FROM 1827 TO 1906, INCLUSIVE—
Concluded.

Year.	Ohio Canal.	Miami and Erie Canal.	Hocking Canal.	Walhonding Canal.	Total on all the Canals.
1880	77,545 66	111,259 67	19,235 58	7,470 45	215,511 36
1881	61,819 03	109,122 88	6,304 45	608 41	177,854 77
1882	\$57,703 25	\$98,764 97	\$5,614 43	\$1,573 89	\$163,656 54
1883	44,873 52	88,904 17	3,693 47	920 42	138,391 58
1884	37,787 79	83,992 14	2,271 41	448 30	124,499 64
1885	25,149 98	76,156 21	2,587 18	71 95	106,965 32
1886	27,071 78	76,043 57	3,199 20	945 71	107,260 35
1887	28,932 35	87,200 36	4,138 38	932 34	121,203 43
1888	29,509 46	75,955 13	3,798 36	906 02	110,168 97
1889	28,005 47	79,476 82	2,605 15	892 12	110,979 56
1890	29,489 20	73,788 02	1,629 17	933 18	105,839 57
1891	42,756 24	63,876 47	856 38	1,023 48	108,512 57
1892	24,990 37	86,722 96	1,197 37	923 64	113,834 34
1893	29,023 90	66,211 86	689 33	588 00	96,513 09
1894	22,716 35	74,716 75	120 51	†6,671 73	104,225 34
1895	24,544 25	80,324 41	.....	†.....	104,868 66
1896	25,591 24	97,327 12	.....	†.....	122,918 36
1897	26,132 17	80,293 14	.....	†.....	106,425 34
1898	22,380 54	57,433 64	.....	†.....	79,814 18
1899	21,657 71	69,151 41	.....	†.....	90,809 12
1900	24,883 25	61,896 70	.....	.....	86,779 95
1901	20,223 42	67,180 60	.....	.....	87,404 02
1902	24,314 96	63,148 23	.....	.....	87,463 19
1903	35,776 56	71,229 40	.....	.....	107,005 96
1904	26,883 87	60,985 71	.....	.....	87,869 58
1905	59,413 55	64,138 49	.....	.....	125,552 04
1906	36,247 75	62,696 36	.....	.....	98,944 11
Total	\$9,268,992 53	\$7,260,034 65	\$288,469 42	\$54,972 14	\$16,872,468 7†

† Receipts from Walhonding canal included in Ohio canal receipts.

* From lessees and receiver from 1861 to 1878, inclusive.

TABLE SHOWING GROSS RECEIPTS, TOTAL EXPENDITURES AND
NET EARNINGS FROM 1827 TO 1906, INCLUSIVE.

Year.	Gross Receipts.	Total Expenditures.	Net Earnings.
1827 to 1906 (inclusive).....	\$16,872,468 74	\$12,582,531 26	\$4,289,937 48

Report of Chief Engineer
OF
The Public Works
1906

(37)

REPORT OF CHIEF ENGINEER.

OFFICE OF THE CHIEF ENGINEER OF PUBLIC WORKS, JUDICIARY BUILDING,
COLUMBUS, OHIO, December, 1906.

*To His Excellency, GOVERNOR HARRIS, And to the Honorable Board of
Public Works of the State of Ohio.*

GENTLEMEN:—As Chief Engineer of Public Works, I have the honor to submit herewith, in obedience to the requirements of the statutes and the rules and regulations governing the conduct of my office, my fifteenth annual report of the operations of the Public Works of the State for the fiscal year ending on the 15th day of November, 1906, it being the twenty-eighth annual report of this department of Public Works since the creation of the office of Chief Engineer by an Act of Legislature which was passed and took effect May 14th, 1878.

I shall forego in this report any new suggestions or extended remarks in relation to the improvement and rehabilitation of the canals of the State, contenting myself with a brief reference to the subjects treated in my two annual reports last preceding, especially that of 1903, in which I dwelt at length upon the most important issues effecting any future policy to be adopted in the management of the canals, their past history, and recommendations for their retention and improvement.

I beg to call your attention particularly to the following subjects in relation to the Ohio Canal which are treated in detail in the report of 1903 referred to, to-wit:

Historical sketch of the canal and reasons for the retention of the Public Works as navigable water ways.

Aid in providing funds and Government interests.

The leasing of the Public Works and comments.

General conditions. Section of canal necessary to economical haulage.

Comparison of freight rates by canal and by rail.

Maps, cross-sections, profiles and plates attached, in report.

Miscellaneous findings having reference to recommendation made.

Muskingum River improvement as an auxiliary to a future canal system of the State.

General reference and summaries.

Feasibility of improvement and enlargement of canals as recommended.

Basis of expenditure of water supply.

Water supply requisite to meet demands.

Advisability of improvement and betterment.

General recommendations.

Estimates for improving canal by enlargement as recommended.

General reference to the report of the Government Engineers on a barge canal with estimates of cost of construction and other matters along lines of canal interest treated of at length.

It will be noted in my reports that I advocated the rehabilitation on economical lines of the Northern Division of the Ohio and the Miami and Erie Canals — in fact such an improvement and enlargement of both of these canals as would permit the navigation of boats of 115 tons net, increasing their capacity more than fifty per cent.

The adoption of this plan would, I believe, then be within the financial ability of the State, and I recommended that at a *future time* the canal system be further enlarged to a size capable of transporting a full sized Ohio River barge, although such a plan would involve an expenditure beyond the financial resources of the State at present.

The estimates submitted for the rehabilitation of the two canals amounted in round numbers to about one and one-half million dollars. To this sum should be added (on account of changes outlined in more recent reports) about 15% to the estimate submitted for the improvement of the Northern Division of the Ohio Canal between Cleveland and Dresden, and 20% for the improvement of the Miami and Erie Canal; the increase for the Ohio Canal being accounted for by the higher prices for labor and material now prevailing and the tardy execution of the work which could not be anticipated at the time the first estimate was made; the increased cost for the Miami and Erie Canal being explained by the necessity of entirely rebuilding the big State Dam across the Miami River at Middletown and by the decision to substitute concrete for wooden locks between New Bremen and Toledo — numbering 36 — instead of merely repairing such locks with new timber work.

The estimates given in my report of 1903 for the enlargement to a *modern barge* canal of the Northern Division of the Ohio Canal, 150 miles, and of the Miami and Erie Canal, 244 miles, amount in the aggregate to nearly forty-two million dollars; the estimates providing for locks, 26 feet in width and 200 feet in length with a depth over mitre sills 10 feet.

The great difference between the cost of these two plans of improvement, as may readily be conceived, induced the recommendation for the lesser one, taking into consideration the financial ability of the State at the time, and the general purpose to be accomplished.

In the report referred to, I attempted to show, by facts and arguments in favor of the rehabilitation plan, the commercial value of the canal when completed, and that if its management were conducted along economical lines, it could be made self-sustaining for a number of years, pending a future time for the building of a modern barge canal. When

that time comes, I would advise that the canal be increased to the largest capacity compatible with the physical conditions to be contended with.

In consequence of its full presentation of facts and arguments and its recommendations for the retention and rehabilitation of the two canals, such improvement to be begun at once, my report for 1903 was accepted by the friends of the canals as a text-book or manual in presenting the plea for canal improvement to the 76th General Assembly, with the result that a policy of improvement was adopted and appropriations for reconstruction were made by Senate Bill No. 258 which was passed April 25th, 1904.

In as much as this bill is of vital importance, being actually a declaration of the General Assembly in favor of canal improvement along the economical lines recommended, affecting not only the future of the Northern Division of the Ohio Canal, but the entire canal system, I herewith submit a copy of the act in full:

AN ACT

To provide by appropriation for the improvement of the northern division of the Ohio and Erie Canal.

Be it enacted by the General Assembly of the State of Ohio:

SECTION 1. That as a part of a continuing appropriation hereby begun, for the improvement of the Ohio and Erie canal, there is hereby appropriated from any moneys to the credit of the general revenue fund, not otherwise appropriated for the year 1904, the sum of seventy-five thousand (\$75,000) dollars and for the year 1905, the sum of one hundred and twenty-five thousand (\$125,000) dollars, the same to be expended by the state board of public works, under the direction of the state engineer, and substantially in accordance with plans and specifications prepared by said engineer, and now on file in the office of the state board of public works, for the reconstruction of the northern division of the Ohio and Erie canal, beginning at its northern terminus at Cleveland, Ohio.

Provided, that the appropriation herein made shall not be available until new leases have been made between the state of Ohio and the present water lessees along the said northern division of the Ohio and Erie canal, aggregating in rentals at least the sum of thirty thousand (\$30,000) dollars per annum. Such new water leases shall not be for a greater term than five years, and shall become operative and payable at (the) new rates, as agreed upon in such new leases, as soon as the state of Ohio shall have begun said improvement of the Ohio and Erie canal, which will substantially involve an expenditure of five hundred and seventy-three thousand, sixty-four and thirty-three one-hundredths dollars, (\$573,064.33) in accordance with said plans and specifications prepared by the state engineer, and now on file in the office of the state board of public works. All new leases before becoming operative under the provisions of this act, shall be approved by the governor, the state board of public works and the chief engineer of the state board of public works.

GEORGE T. THOMAS,
Speaker of the House of Representatives.

W. G. HARDING,
President of the Senate.

Passed April 25, 1904.
Approved May 6, 1904.

MYRON T. HERRICK,
Governor.

The 77th General Assembly, continuing the policy of improvement inaugurated by its predecessor, also made appropriations during its session of 1906 as follows, to-wit:

FOR THE YEAR 1906.

For rebuilding the Miami and Erie Canal north of Dayton.....	\$50,000.00
For reconstructing Northern Division of Ohio Canal, Cleveland to Dresden	100,000.00
For reconstructing the Miami and Erie Canal, Cincinnati to Dayton....	100,000.00

FOR THE YEAR 1907.

For rebuilding the Miami and Erie Canal north of Dayton.....	\$50,000.00
For reconstructing the Miami and Erie Canal, Cincinnati to Dayton....	156,000.00
For reconstructing Northern Division Ohio Canal, Cleveland to Dresden.	150,000.00

Thus a total appropriation was made, to be especially directed towards the improvement of these two canals as follows:

Ohio Canal Cleveland to Dresden.....	\$450,000.00
Miami and Erie Canal.....	356,000.00

Total appropriations for these purposes.....	\$806,000.00
--	--------------

The work contemplated by these appropriations is now in progress and is specifically outlined and treated in special reports from the Engineers in charge of respective divisions of the canal, hereto attached and made a part of this report.

In order that it may be understood what kind of improvement is contemplated by the appropriation made by the initiatory measure, Senate Bill No. 258, 'as a part of a continuing appropriation thereby begun,' and by other appropriations to follow, I beg to submit the following statement, quoting largely from my report referred to:

"The present material body of the Public Works of the State is, in the abstract, worn out, and unless the slow and certain decline into which the canals are falling, is very soon arrested by proper ways and means, they will be forced out of business as freight carriers and as a source of water supply.

The Public Works have their excellent, good and bad physical parts, the first two largely predominating in extent and volume, while the latter, as may be readily understood from an industrial standpoint, govern results and the actual efficiency of the whole.

In late years, where special appropriations have been made for the purpose, or where it has seemed important, for obvious reasons, to concentrate means for making special improvements on those parts of the canals which bring in the greatest revenues, decided betterments of a specific character have been made. However, where this policy (forced upon the officers of the Department since the time when the property

was turned back to the State in a crippled condition) has been carried out, it has necessarily worked an injury to other parts of the canal less favored. Ever since these changes in the affairs of the Public Works were brought about, (primarily by the lease in question,) there has been a gradual falling off in gross earnings, and in direct appropriations by the Legislature, the latter naturally influenced by the diminished amount of the former, the effect of which has been to further gradually cripple the physical condition of our canals and their ability to meet the demands for traffic and other purposes for which they were intended.

These and other adverse and long prevailing conditions have acted as a serious hindrance to their success otherwise, until the canals can no longer economically furnish water for manufacturing and domestic uses or dictate and enforce minimum freight charges, the latter being the particular purpose for which water ways are constructed and maintained by a government, although it remains a pertinent fact that some certain portions of the canals are still performing this important function of their creation and at present do actually limit maximum charges in many cases. In fact, the canals of Ohio have practically been permitted to remain dormant for nearly half a century, deprived of any improvements whatsoever in their mechanical parts and suffered to become physically disabled, until they have fallen so far below a moderate standard of efficiency that they are unable longer to keep pace with railway transportation, while on the other hand the roadbed and equipment of railways have been constantly improved by the adoption of every possible invention that unlimited means could command and which could in any manner effect a reduction in operating expenses.

These unequal conditions have given rise to an erroneous estimate of the capabilities of a canal as a freight carrying competitor and to the unjust conclusion on the part of some that our Ohio canals are obsolete and not worthy of favorable consideration."

In fact the condition of our canal had become such as to render it a menace to the safety of our people and a source of constant damage to abutting property. Owing to neglect, necessitated by the indigency of the Department, many of the walls were overhanging more than a foot; the feeder dams were leaky and some of them out of commission; many aqueducts and other minor structures were in bad physical condition, until it was a common saying of your employes that they could not understand what kept these structures standing unless it was "force of habit," and the falling in of the canal prism which became a hindrance to navigation.

It was such a condition of affairs that at last forced the declaration of a policy by the legislature, resulting in the appropriation noted above, contemplating a rehabilitation of the two parts of the canal mentioned, in such a manner as to permit the transportation of boats capable of carrying a net burden of 115 tons; in fact, again quoting from my report:

"The improvement of the Miami and Erie Canal and of the Northern Division of the Ohio Canal to be such as to insure their maintenance at a minimum cost. All new masonry to be of first-class character; the foundation timbers of locks and the unlaied portions of lock walls to be fully grouted and faced, where required, with Portland cement concrete; new gates and mitre sills to be supplied where required; the timber entering into any kind of work to be sound and durable; all new aqueducts of over 20 feet span to be of a combination of steel and wood; present timber aqueducts that will stand the test to be repaired in a good substantial manner; all dams and wasteways to be rebuilt and repaired with timber and concrete where necessary, and all work of every character and kind to be done in a good and workmanlike manner, so as to insure stability; the entire channel of the canal, where required, to be newly excavated so as to admit the free passing of boats loaded to their maximum capacity; the improvement to be confined to the present canal right of way, the ownership of which is held by the State in fee simple."

I have the honor to transmit herewith, as part of this document, the following reports made to me by Messrs. Wonders, Hanlon, and Paul, Engineers who each have charge of one of the three divisions of the improvement, showing particularly the extent of the improvement as now finished and in progress of construction, contracts entered into, a statement of monies expended and all business connected therewith, and outlining plans and recommendations for continuing the improvement for next season; the said Engineers having been appointed under authority of an act of the 77th General Assembly which passed and took effect April 2, 1906.

As the act is an important measure affecting the government of the department, I take the liberty of quoting its full text as follows:

(Senate Bill No. 32.)

AN ACT

To amend section 2 of an act entitled "An act to define (defining) the powers and prescribing the duties of the board of public works," passed May 14, 1878, and to extend the existing term of a member of the board of public works, so as to effect the purpose of section 1, article XVII of the constitution; and to define the duties of the chief engineer of public works; and to confer the powers and duties of the Ohio canal commission upon the board of public works of Ohio and to limit the powers of said board of public works in leasing canal and state lands.

Be it enacted by the General Assembly of the State of Ohio:

SECTION 1. That section 2 of an act entitled "An act defining the powers and prescribing the duties of the board of public works," passed May 14, 1878, be so amended as to read as follows:

Sec. 2. The term of office of the member of the board of public works which would otherwise expire on the second Tuesday of February, one thousand, nine hundred and eight, is hereby extended to the second Tuesday of February, one

thousand, nine hundred and nine, and the incumbent in said office at the time when said existing term would otherwise expire, shall continue to hold and enjoy the same until the expiration of said term as so extended, subject to all the provisions of law relating to removals or vacancies therein.

Provided, that before entering upon his duties for such added period, to secure the faithful performance thereof, he shall give bond to the state in like manner and form as is required of one elected to fill such office.

At the election for state and county officers held in the year one thousand, nine hundred and six, and quadrennially thereafter, one member of the board of public works shall be elected, and at the said election held in the year one thousand, nine hundred and eight, and quadrennially thereafter, two members of said board shall be elected; and the terms of office of all such members of said board hereafter elected shall commence on the second Tuesday of February next after their election, and continue four years.

Each member of the board shall receive eight hundred dollars per annum salary, and not to exceed fifty dollars per month traveling expenses, during the time the state has possession of the public works, and eight hundred dollars per annum salary thereafter, but shall not receive any traveling expenses. Said salary and expenses shall be paid monthly after the services are rendered and expenses incurred, upon the order of the board, out of the canal fund on the warrant of the auditor.

SECTION 2. The chief engineer of the public works, in addition to the powers and duties conferred and imposed upon him by existing laws, shall prepare all plans and specifications for all contracts or other work in connection with the rebuilding, reconstruction or improvement of the public works or canals, or either of them, or any part of the same, which may have been, or may be provided for by specific appropriation. All work in connection with the rebuilding, reconstruction, or improvement of the public works shall be let by contract whenever the same is possible in the opinion of the board of public works and the chief engineer. All contracts for such rebuilding, reconstruction, or improvement shall be so made and let as to insure the fullest competitive bidding, and prevent the subletting of contracts.

During such time as the chief engineer shall be actively engaged in the rebuilding, reconstruction, or improvement of any part of the public works, he may, subject to the confirmation and approval of the board of public works, appoint not to exceed two field engineers, who shall, under the supervision of the chief engineer, have immediate charge of the work in the field, and who shall be practical civil engineers, and shall be paid at the rate not to exceed two hundred dollars per month, and their actual and necessary expenses, while actively engaged in such work. Each field engineer shall give bond with good and sufficient sureties to the approval of the board of public works, the chief engineer, and the attorney-general, in the sum of ten thousand dollars, conditioned for the faithful performance of his duties, which bond shall be filed with the treasurer of state.

During such time as the chief engineer shall be actively engaged in the rebuilding, reconstruction, or improvement of any part of the public works, he shall, subject to the confirmation and approval of the board of public works, appoint such number of inspectors and other employes of the engineering corps as may be necessary to insure the prompt and faithful performance of all contracts and other work under his charge.

The chief engineer may remove any field engineer, inspector, or other employe of the engineering corps at pleasure, but shall have power to fill the vacancy only for the period intervening between the time of removal and the next meeting of the board of public works.

All expense accounts of the field engineers, inspectors and employes of the engineering corps shall be itemized and verified under oath and approved by the chief engineer and the board of public works before allowed or paid.

All payments on account of contracts or other work in connection with such rebuilding, reconstruction, or improvement, shall be made upon estimates to be furnished by the assistant engineers to the chief engineer, which estimates if approved by the chief engineer, shall be submitted to the board of public works, and when approved by said board, the board shall issue their warrant for the payment of the same as provided by law.

SECTION 3. That on and after the 28th day of April, 1906, all the powers and duties conferred on the Ohio canal commission by the statutes be and they are hereby conferred upon and vested in the board of public works and all sections of the statutes of Ohio relating to the said Ohio canal commission are hereby made applicable to the board of public works of Ohio; provided, however, that no land lease or sales of canal or state lands shall be made except with the written approval of the governor and attorney general.

SECTION 4. That said board of public works is hereby authorized to expend out of the canal earnings of the state an amount not exceeding four thousand dollars per annum to meet the salaries and necessary expenses of the employes and the actual expenses of the said employes of the board of public works when discharging the additional duties devolving upon them and heretofore imposed upon the canal commission.

SECTION 5. That on or before the 28th day of April, 1906, the canal commissioners shall deliver to the president of the board of public works at the office of said board all books, records, documents, papers, surveys, maps, plats, furniture and all other property of the state of any description in their possession or under their control as such commissioners.

SECTION 6. The canal commissioners shall file with the governor at the expiration of their term of office their final report as required by law covering the time between the date of their last report and the date of the expiration of their term of office.

SECTION 7. That said section 2 of an act entitled "An act defining the powers and prescribing the duties of the board of public works," passed May 14, 1878, and all acts and parts of acts inconsistent herewith be and the same are hereby repealed.

C. A. THOMPSON,
Speaker of the House of Representatives.
JAMES M. WILLIAMS,
President pro tem. of the Senate.

Passed April 2, 1906.

Following are the reports referred to:

REPORT OF JAMES C. WONDERS, CIVIL ENGINEER, IN CHARGE OF
THE MIAMI AND ERIE CANAL IMPROVEMENT.
OFFICE, MIDDLETOWN.

"In compliance with your request and the rules and regulations which you have prescribed for the conduct of this office, as Assistant Engineer of the Improvement of the Miami and Erie Canal, under an appropriation made by the General Assembly, I herewith submit the report of the operations of this department for the period ending with the fiscal year on the 15th day of November, 1906.

I received my appointment, coming from you, and approved by the Board

of Public Works, April 10, 1906, qualified in accordance with the law and gave bond in the sum of \$10,000.00 and began work immediately.

Middletown was selected as headquarters for this department and an office has been fitted up in the state warehouse building.

W. E. McElree, draftsman, George D. Baker, levelman and Joseph Schneller, rodman, were employed and began work April 30, and H. C. Baldwin was employed as a field assistant and began work May 28. A. H. Sawyer was employed making tracings and blue prints of maps in the Columbus office from April 29, to July 5, and H. W. Meacham has done special engineering work on that part of the canal between Dayton and Toledo. In addition to the above it has been necessary to employ on a few occasions, other assistance, the expense of which has been included in this report under the head of engineering expenses.

Mr. McElree and myself have done considerable work on the division from Dayton to Toledo.

The canal has been leveled from Cincinnati to Dayton and the levels have checked with U. S. Geological Survey Bench Marks. Cross sections have been taken and calculations for the dredging have been made.

Surveys of locks, aqueducts, overhead bridges and other structures have been made between Dayton and Cincinnati, including a survey of the site of the proposed new dam across the Miami about three miles north of Middletown. Surveys of a number of locks and other structures have been made between Dayton and Toledo including the Grand Rapids dam on the Maumee River.

Surveys, maps and cross sections have also been made showing the encroachment of the C. C. C. & St. L. Ry. along the canal between Miamisburg and West Carrollton.

Levels have been taken to fix the grade of the Miami Aqueduct.

Of the appropriation made for this work, \$100,000.00 was available between Dayton and Cincinnati and \$50,000.00 was available between Dayton and Toledo for the year 1906.

Plans and specifications have been prepared and contracts let as follows,
Dayton to Cincinnati,

Lesourdsville Aqueduct, superstructure, steel truss with wooden trunk, date of letting June 12, 1906. Contractor, Capital Construction Company, contract price \$5,549.00.

Sunfish Aqueduct, superstructure, steel frame with wooden trunk, date of letting June 12, 1906. Contractor Capital Construction Company, contract price \$2,485.00.

Dredging canal from Middletown to Lockland estimated at 350,000 cubic yards. Contractor Acme Paving Company, contract price 12 cents per yard, estimated amount of contract \$42,000.00. Date of letting, July 10, 1906.

Constructing concrete additions to the abutment of the Lesourdsville Aqueduct, date of letting July 10, 1906. Contractor, Frank Davis, estimated amount of contract \$1,339.23.

Constructing concrete additions to the abutments and a concrete pier at Sunfish Aqueduct, date of letting July 10, 1906, John Snyder, Contractor, estimated amount of contract \$1,068.49.

Rebuilding Locks No. 32, 33, 34, 35, 36, and 37 between Middletown and Lockland date of letting July 10, 1906, Frank Davis, Contractor, estimated amount of contract \$7,140.24.

Rebuilding Locks No. 38, 39, 40, 41, 42, and 43 between Middletown and Lockland, date of letting July 10, 1906, Frank Davis, Contractor, estimated amount of contract \$6,864.38.

Furnishing hardwood lumber on board cars at any station between Middle-

town and Lockland, date of letting July 10, 1906. W. J. Orr, Contractor, estimated amount of contract \$2,297.20.

Delivery of Portland cement at railway station between Middletown and Lockland, date of letting July 12, 1906. The Atlas Portland Cement Company, Contractor, estimated amount of contract \$5,100.00.

The total estimated amount of the above contracts between Dayton and Cincinnati being \$73,843.54.

Contracts have been let between Dayton and Toledo as follows:

Six Mile Aqueduct, date of letting July 12, 1906, David Beard Contractor, estimated amount of contract \$4,482.60.

Miami Aqueduct, two 80 ft. spans, date of letting July 12, 1906, Capital Construction Company, Contractor, contract price \$11,800.00.

Defiance Locks, No. 36 and 37, date of letting July 12, 1906. Schneider Bros., Contractors, estimated amount of contract \$10,549.00.

Lock No. 14, about five miles north of St. Marys, date of letting July 12, 1906. Schneider Bros., Contractors, estimated amount of contract \$6,944.50.

Spencerville Culvert, date of letting July 12, 1906. J. N. Kissner, Contractor, estimated amount of contract \$1065.40.

Delivery of 2500 barrels of cement at Defiance, 1600 barrels at St. Marys and 1000 barrels at Spencerville, date of letting July 12, 1906, the Atlas Portland Cement Company, Contractor, estimated amount of contract \$8609.00.

The total estimated amount of the above contracts between Dayton and Toledo is \$43,450.50.

Of the work above described the dredging has not yet been begun, but the dredge is built and almost ready to begin work. The Lesourdsville Abutments are about two-thirds completed and the superstructure is being erected.

The Sunfish concrete work is almost finished. The Six Mile Aqueduct has one abutment nearly completed. The Middletown Lock has been completed and Amanda Lock is nearly done. Lock No. 37 at Defiance is finished and Lock No. 36 is about one-half done. Nothing has been done at Lock No. 14 near St. Marys. The Spencerville Culvert is finished. The delivery of lumber and cement has been very satisfactory. The materials have been of fine quality and delivery has been prompt.

No work was completed and ready for the final estimate at the time of filing the October Abstract.

The progress of the work has not been satisfactory but it is largely due to the scarcity of labor which has prevailed over this entire region.

All of the work except the dredging was to have been completed by November 1st. Under the terms of the contracts we could have taken the work from the contractors and employed other help to complete it, but I doubt if at any time I could have secured any more men than the contractors were working.

The work completed has been done in a satisfactory manner. Owing to the nature of this work it has been impossible to accurately estimate the quantities of the different kinds of work, and especially has this been found true in tearing down the old stone lockwalls. In each lock torn down thus far, the condition of the old masonry has been found to be worse than the surface would indicate and notably in the case of the Excello Lock which was estimated to have part of its masonry relaid and it was found on tearing down the walls by inspection by yourself and the Board of Public Works to be in such a bad condition that you have ordered it rebuilt with concrete after the manner of the Middletown Lock at an additional cost of about \$3000.00.

The work of building dams and pumping out the locks, repairing the lock floors, building and placing gates and back-filling against lock walls and abutments

is reserved for the forces of the superintendent of repairs and will probably amount to \$1000.00 per lock.

Work has been done by the superintendents and paid for from the fund appropriated for the improvement from Dayton to Cincinnati in the sum of \$17,029.42 and from the fund for the improvement from Dayton to Toledo in the sum of \$471.06.

The most important work to be done next year between Dayton and Cincinnati is the dredging of the canal from Miamisburg to Middletown. It is impossible for a boat to pass through this part of the canal and it should be opened to permit navigation from Dayton to Cincinnati. This work is estimated at 230,000 cubic yards that can be deposited on the banks at 15 cents per cubic yard, amounting to \$34,500.00 and 85,000 cubic yards that will have to be hauled to dumping grounds at a cost of 50 cents per cubic yard, amounting to \$42,500.00. Total cost of dredging, Miamisburg to Middletown is estimated at \$77,000.00.

Also contracts should be let for dredging from Lockland to Cincinnati amounting to 140,000 cubic yards that can be deposited on the banks at 15 cents per cubic yard amounting to \$21,000.00, and 70,000 cubic yards that will have to be hauled to dumping grounds at a cost of 50 cents per cubic yard amounting to \$35,000.00.

Total cost of dredging, Lockland to Cincinnati is estimated at \$56,000.00.

Total estimate of this dredging is \$133,000.00.

Sluice gates for washing mud from the canal should be constructed at frequent intervals where proper outlets can be secured. These sluice gates should be substantial structures of concrete.

Where it is not necessary to raise the banks it is more desirable to deepen the canal by washing than by dredging, and the right to do such work in advance of the dredging has been reserved in this year's contract and will be in future contracts.

By using this method of excavating it may be possible to reduce the cost of deepening the canal in those parts where the excavation cannot be deposited on the banks.

The locks between Dayton and Middletown should be repaired and placed in condition corresponding to the work south of Middletown.

The old submerged stone arch culvert at Holwigger's should be replaced with a larger culvert built of concrete.

The headgates at Dines should be rebuilt. The old iron frames and gates can be used but the rest of the structure should be built of concrete.

Between Dayton and Toledo, the improvement of the Providence dam, the rebuilding of Buchland lock, and Locks 49, 51 and 52 in the City of Toledo, and the repair of the waste weir at Loramie Reservoir are improvements that call for immediate attention, but the money available is not sufficient for all of this work, and the part to be done will have to be determined upon.

I have merely outlined in the above report the work to be done during the coming year, but detail plans and specifications will be prepared for this work, to be presented at the January meeting of the Board of Public Works.

The money paid out for work done on this improvement to date, is as follows:

DAYTON TO CINCINNATI.

Engineering, salaries	\$4,051 25.
Engineering, personal expenses.....	1,934 52
Engineering, extra help.....	80 80
Engineering, boarding boat.....	213 04
Office and field party equipment, supplies and livery.....	627 47
Advertising	300 45

Operating State Dredges No. 4 and 6.....	1,600 15
Repairs Middletown Dam.....	258 36
Hauling lumber	22 50
Express on canal scrapers.....	3 00
Carpenter Shop supplies.....	21 55
Washing Lockland Basin.....	200 62
Paving under Miamisburg Aqueduct.....	353 01
Pointing walls Shepherds Run Culvert.....	146 60
Scraping canal Dayton to West Carrollton.....	13,455 61
Lockgates castings	21 10
Portland cement	2,333 25
Hardwood lumber	555 96
Middletown Lock	2,423 72
Amanda Lock	866 48
Lesourdsville Aqueduct	3,535 87
Inspectors	290 00
Sunfish Aqueduct	1,548 98

\$34,844 29

DAYTON TO TOLEDO.

Engineering fees.....	\$310 00
Engineering, personal expenses.....	156 05
Engineering, miscellaneous expenses.....	66 06
Advertising	61 57
Inspectors	476 00
Portland cement	4,104 90
Lock No. 36.....	612 80
Lock No. 37.....	5,315 23

\$11,102 61

REPORT OF JOHN A. HANLON, CIVIL ENGINEER IN CHARGE OF
THE NORTHERN DIVISION OF THE OHIO CANAL.
OFFICE, AKRON.

In compliance with the regulations of your office I submit herewith a report of the operations under the Act of the Seventy-seventh General Assembly of Ohio, providing for the improvement of the Northern Division of the Ohio Canal, covering the last seven and one-half months of the fiscal year, ending Nov. 15, 1906, and extending over that portion of the Canal between the Muskingum River at Dresden and the north end of Portage level at Lock 22 between Akron and Cleveland, distance 117 miles.

DRESDEN LOCKS.

At the time of taking charge of this Division pursuant to my appointment in April 1906, no construction work was at that time under contract, except that under contract with the Clifton Bros. of Durant, Ohio, for the rebuilding of Lock No. 3 (Outlet Lock), at Dresden, Ohio, and the repairing of Locks 1 and 2 at the same place.

This contract was entered into in Nov. 1905, and at the time I took charge, Lock 3 had been entirely excavated and the contractors were ready to begin the new work

The work contracted for comprised the entire rebuilding of Lock No. 3, and the necessary repairs to Locks 1 and 2.

Lock No. 3 had been partially destroyed by the flood waters and ice gorges in the Muskingum River, and was in consequence entirely rebuilt.

Locks 1 and 2 required new gates, reflooring in part, rejoining of old masonry and new wing walls in place of timber cribs.

The new masonry was built mainly of concrete; the mass consisting of about two-thirds gravel concrete and one-third selected stone from the old work, imbedded in the gravel concrete.

Lock No. 3 rests upon a rock foundation.

The elevation of lower miter sill provides for a depth of six feet of water from the crest of the proposed Dam No. 11 on the Muskingum River between Dresden and Zanesville as located by the U. S. Engineer, and from whose office, elevations were furnished showing relative location of miter sills at Lock No. 3.

The contract was completed in July, together with such repair work as was performed by the State repair force, and the entire cost of the work done on Locks 1, 2 and 3 amounted to \$12,073.13.

AKRON LOCKS.

Immediately after assuming charge of the improvement work on this Division, with office at Akron, I proceeded to employ and organize an efficient force for both field and office work, and at once began the preparation of the surveys, plans and specifications for rebuilding the 21 locks at Akron, extending northward from the Summit level through the City of Akron, a distance of 23 miles. Plans were prepared for each lock and approximate quantities made up for the information of contractors.

The plan of the new lock work is on same general plan as the old work. The side walls instead of standing plumb, have a batter of six inches, thus having a width of 16 feet at top and 15 feet at bottom. A uniform plan of wing was adopted differing somewhat from the old plan.

The clear length of lock chamber is 87 feet, a depth of 5.25 feet of water is provided for over miter sills. It was found that with few exceptions the two bottom courses, of about 4 feet in depth, were in good condition and with the breast wall under upper miter sill were left in place. This reduced the original estimate of quantities in masonry over 100 cubic yards in each lock.

The new masonry is mainly of gravel concrete of a 1-3-6 mixture. Our specifications provide for the use of the old lock stone to the extent of about one-third of the mass. The selected stone are imbedded in the concrete in layers, all stones separated from each other by not less than eight inches of concrete, and no stone to be laid nearer than twelve inches of top, face or end of a wall.

In connection with the preparation for rebuilding the Akron locks, plans were made for the rebuilding of Lock 16 at Trenton, in Tuscarawas County.

This lock was in such condition as threatened closing up the canal at that point.

The Akron work consisting of the 21 locks, together with all of the smaller canal structures intermediate, consisting of sluices, culverts, spillways, etc., was divided into six sections of 3 and 4 locks each, including the intervening small structures, the lines between the sections being fixed at such points through the city as would give contractors of each section independent access from some public street or alley.

The lock work is divided in sections as follows:

Section 1, Locks 1, 2 and 3.

Section 2, Locks 4, 5, 6 and 7.

Section 3, Locks 8, 9, 10 and 11.

Section 4, Locks 12, 13 and 14.

Section 5, Locks 15, 16, 17 and 18.

Section 6, Locks 19, 20 and 21.

Pursuant to advertisement in the principal Engineering and Contract Journals of the country, as well as in many city and country newspapers, bids were received in Columbus at noon on the 12th day of July for the rebuilding of 21 locks and smaller canal structures at Akron, as also for the rebuilding of Lock 16 at Trenton in Tuscarawas County.

In view of the extent of the Akron work, its character number of bidders and more or less adverse comment on the awards made by the Board of Public Works, I feel justified in going into details and occupying space to set out plainly the whole proceeding.

The following tabulation shows the names of bidders on the Akron work, the prices on each section, and the aggregate of each bid computed from the estimated quantities in the principal classes of the work:

Contractors.	Sec.	Dry Exc.	Wet Exc.	Concrete.	Total of bids.
S. W. Parshall.....	1	\$0.01	\$0.01	\$3.25	\$8,175 00
P. T. McCourt.....	1	.20	1.00	3.10	9,084 00
James Wildes	1	.50	1.50	3.40	11,619 00
J. N. Kissner.....	1	.40	1.00	4.55	13,683 00
S. W. Parshall.....	2	.01	.01	3.50	12,663 10
P. T. McCourt.....	2	.30	1.00	3.45	14,879 50
James Wildes	2	.50	1.50	3.40	16,265 00
J. N. Kissner.....	2	.40	1.00	4.55	19,366 50
S. W. Parshall.....	3	.01	.01	3.25	11,493 10
P. T. McCourt.....	3	.20	1.00	3.10	12,792 00
James Wildes	3	.50	1.50	3.40	16,459 00
E. McShaffer & Son.....	3	.48	1.40	3.35	16,089 00
A. A. Lykens	3	.25	.60	4.20	17,187 00
S. W. Parshall.....	4	.01	.01	3.25	8,778 90
McGarry & McGowan	4	.20	1.00	3.20	10,281 00
Farver & Penick.....	4	.80	2.00	5.15	20,208 00
A. A. Lykens.....	4	.20	.80	4.00	12,528 00
James Wildes	4	.50	1.50	3.40	13,176 00
S. W. Parshall.....	5	.01	.01	3.35	11,738 50
McGarry & McGowan.....	5	.20	1.00	3.20	13,036 00
Farver & Penick.....	5	.75	2.00	4.65	22,897 00
J. N. Kissner.....	5	.40	1.00	4.40	18,702 00
J. A. Swingle.....	5	.30	.80	4.90	19,662 00
James Wildes	5	.50	1.50	3.40	16,352 00
S. W. Parshall.....	6	.01	.01	3.40	8,440 40
McGarry & McGowan.....	6	.20	1.00	3.20	9,199 00
J. N. Kissner.....	6	.40	1.00	4.55	13,482 50
E. McShaffer & Son.....	6	.50	1.50	3.50	11,695 00
James Wildes	6	.50	1.75	3.75	12,340 00

It will be noted that Mr. Parshall was the lowest bidder on each section, having bid a merely nominal price on each of the two classes of excavation, proposing in fact, to perform about 15% of the work for practically nothing, and with no increase of prices on the other classes of the work to offset it.

It will also be seen, that had Parshall bid for "wet" and "dry" excavation at the lowest prices bid by any other contractor, he would not have been the lowest bidder in the aggregate on a single section.

The unbalanced features of Mr. Parshall's proposal, together with his experience in this class of work, naturally created doubts in the minds of the Board as to the expediency of awarding a large contract under these circumstances.

There was not a single contractor of the nine, who bid on the Akron work who had equipment sufficient to complete one-half of the contract within the time limit, or who would undertake it, and every one of the bidders were experienced men and had equipment to place on the work if awarded them, except Mr. Parshall.

Some of Mr. Parshall's ill advised and over zealous friends attempted to bring about legal proceedings to enforce the award to him, but fortunately, without success.

In the preparation of the specifications, the contingency of a low bidder demanding the award of all the work because he was the low bidder on all, was anticipated, and the following clause inserted in the "Information for Bidders."

Contractors may bid on one or more sections, making one price for each class of work on each separate section, and contractors must bid with the condition, that they will accept an award and enter into contract to construct the work on such sections, whether one or more, as may be awarded to them by the Board of Public Works, irrespective of the number of sections upon which the contractor may be the lowest bidder."

After a recess of one week, the Board decided to divide the work in three contracts as follows: Sections 1 and 2 to P. T. McCourt; Sections 3 and 4 to S. W. Parshall and Sections 5 and 6 to McGarry & McGowan, and so awarded the contracts. McGarry & McGowan and McCourt were the next lowest bidders.

The aggregate of these contracts as awarded to the several contractors on their bids per section was as follows:

P. T. McCourt, \$23,963.50; S. W. Parshall, \$20,272.00; and McGarry & McGowan, \$22,235.00; total, \$66,470.50. S. W. Parshall's aggregate bid on six sections, \$61,289.00.

The statement has been made from time to time since the awards were made and the work in progress, that the disposition of the contracts as awarded by the Board involved a considerable loss to the State, to the extent of the difference between the aggregate bid on all sections by Mr. Parshall and the aggregate of the contracts as awarded, something over \$5000.00.

The progress of the work up to this time shows that the Board made no mistake in judgment in dividing the Akron work, and had they awarded the entire contract to Mr. Parshall, the difference of \$5000.00 would have been expended several times in expense of Engineering and inspection and delays in completing the contract.

The quantities in the lock work as actually built will be less than the original estimates. It has been found practicable to make the excavations in earth in rear of old walls with steeper slopes than estimated, and over 100 cubic yards of old masonry in each lock has been found in good condition and left in place. This occurs in the bottom courses in chamber of lock and breast wall.

A number of sluices, spillways and other minor canal structures, which were not carried into the original estimates and none of which have as yet been built, will probably bring the cost of all the structures up to the total of bids of contractors to whom the work was awarded.

It has been deemed best to have the contractors complete the locks and

then build the small structures, which require less equipment to do the work, and may be built largely from surplus stone from the old locks.

It having been decided by the Board to furnish all cement used by contractors on the work, proposals were invited from cement manufacturers for furnishing and delivering cement at different points on the canals, 12,000 barrels of which were allotted to Akron.

Of proposals received, the Edison Cement Co. was the lowest bidder at \$1.60½ per barrel in paper sacks.

CEMENT CONTRACT.

On inquiry concerning this cement, it was found that it was comparatively a new brand, and from tests made at Cleveland, showed a variability in its "setting" properties, and not being a well known cement in this section of the State, it was decided to award the contract to the next lowest bidder, The Atlas Portland Cement Co. of 80 Broad Street, New York, with works at Northampton, Pa. Their proposal was \$1.63 per barrel in paper sacks delivered at points designated on the Ohio Canal.

This office has had tests made from nearly every car of cement received, by Cleveland chemists, and the results almost uniformly have been above the requirements of the contract.

Owing to complaints of the contractors in regard to breakage of paper sacks and consequent delays in caring for it, since Oct. 1st, cement has been ordered shipped in cloth sacks.

The cement is charged at \$1.90 per barrel in cloth sacks, with a rebate of 27 cents per barrel for sacks returned when empty.

LOCK 16. TRENTON.

On July 12th, as per advertisement inviting bids for the Akron locks, bids were received for rebuilding Lock 16 at Trenton, Tuscarawas County. Three proposals were received from G. W. Murphy, McGarry & McGowan and J. N. Kissner, aggregating \$5809.50, \$5329.00 and \$4324.00 respectively.

The work was awarded to J. N. Kissner at his bid of \$0.35 per cubic yard for dry excavation; \$1.00 per cubic yard for wet excavation, and \$3.75 per cubic yard for concrete masonry.

About the time the contractor began operations, in connection with the Superintendent of Repairs, it was decided to use the old stone in Lock 16 to protect the canal bank at a point between Locks 16 and 17, where the river had encroached and some protection had been already made with piling.

LOCK 16, TRENTON.

To use the stone in this way, necessitated an allowance to the contractor for the gravel concrete substituted for the stone so used, estimated at one-third of the entire masonry, and adding \$1.25 per cu. yd. for the concrete masonry.

This change provided for the protection at a considerably less cost than could have been secured from any other source.

MUD RUN CULVERT.

On August 28th, proposals were received for building a pipe culvert under the canal about one mile east of Barberton, at Mud Run.

The construction of this culvert became necessary on account of the improvement of Mud Run under the Ditch law by the County Commissioners, the stream being dredged out to a depth about two feet lower than the bottom of the old culvert.

The culvert which was a part of the original canal construction was of timber, but in good condition, however, to give the land owners the full benefit of the improvement for which they are assessed, the Board ordered the construction of a new culvert at the grade established by the County Commissioners.

The culvert has been built of three lines of 30 inch d. s. sewer pipe, the lines of pipe spaced eighteen inches apart and imbedded in a concrete foundation to half their depth. The culvert is 100 feet in length and has concrete head walls at each end.

The work has cost about \$2,400 out of which, the lumber used for dams and forms not left permanently in the work, has been recovered and is available for other purposes.

LUMBER CONTRACT.

On July 19th, pursuant to advertisement, bids were received for furnishing oak lumber for lock gates at Akron.

There were two proposals received, one from The Bowers Conkle Lumber Co., of Massillon, Ohio, and one from E. J. McLaughlin & Co., of Canal Fulton, Ohio, both bidding \$29.00 per 1,000 feet B. M.

Later, contract was made with The Bowers-Conkle Lumber Co., for 80,000 feet B. M., and with E. J. McLaughlin & Co., for 40,000 feet B. M. at the prices named.

Also, on July 19th, proposals were received for dredging the Walhonding feeder of the Ohio canal from Roscoe to the Six Mile Run.

The bids were as follows:—

McGarry & McGowan, 60,000 cu. yds. @ 22c.....	\$13,200.00
W. H. Schott, 60,000 cu. yds. @ 16c.....	9,600.00
J. N. Kissner, 60,000 cu. yds. @ 12.....	7,200.00

The work was awarded to J. N. Kissner and contract entered into August 1st. No work will be done on this contract until the completion of a new dredge in January.

DREDGING WALHONDING CANAL.

In the agreement between the Board of Public Works and Wm. Himebaugh of Coshocton, Ohio, for the use of the surplus water from the Walhonding Canal for power purposes, (of which the above mentioned dredging contract is one of the undertakings on the part of the Board of Public Works,) it is provided that the State will deepen and widen the channel of the canal "so as to give a minimum cross section at least equal to the minimum cross section of canal as shown by exhibits "C" and "D" of the Chief Engineer's Report to the Board of Public Works for the year 1903," etc. It has been ascertained from cross sectioning this canal channel, that at points along the first mile from the head of the canal, the area in the cross section "C," (which is the minimum referred to in the agreement), can not be obtained with the ordinary earth slopes, on account of the canal originally having been built with a water line width of only 40 feet.

To compensate for this it has been decided to deepen the channel from the guard lock (one-half mile below dam) to Roscoe and increasing the fall of the level as much as practicable between the two fixed points, to-wit:—the miter sills of guard lock and the back of arch culvert near Roscoe, and in this way increase the flow to as much or more than the estimated flow as contemplated in the above mentioned agreement.

This change of cross section will increase the quantities over and above the quantity as estimated at the time contract for dredging was made, about 25,000 cubic yards.

Another undertaking under the above mentioned agreement was to rebuild the Six Mile Dam on the Walhonding River.

The Six Mile Dam is in the Walhonding River at the head of the last section of the old Walhonding Canal which is now used as a feeder for the Ohio Canal at Roscoe, in addition to furnishing water power for two or three mills. The distance from the inlet to this feeder at the dam, to Roscoe, its junction with the Ohio Canal, is six miles.

The Six Mile Dam is a timber crib structure, filled with stone, built about 70 years ago.

It rests partly on rock bottom, partly on the gravel. There has been a movement of the structure as indicated by its alignment, at some time in the past.

Its stability and permanency is a matter of conjecture. As it stands, its worst defect is leakage. To repair this leakage, for which proposals were received on November 14th, would cost about one-fourth that of a new dam.

Bids were advertised for and received at Columbus on July 19th. Several proposals were received on the State's plan for a concrete dam and one for a concrete steel.

Owing to doubts as to the stability of the dams as planned in either the concrete steel, owing to conditions met with entirely different from storage dams, mainly that of the flood height in the Walhonding River, it was directed to readvertise for bids, which was done and bids were again received on October 9th, both on plans prepared in this office, and a special concrete steel plan submitted by the W. H. Schott of Chicago.

Owing to the cost as shown by lowest bids, all bids were rejected and the work again readvertised.

SIX MILE DAM.

Plans were prepared in this office after thorough surveys as to choice of location, and a design adopted which incorporated the old structure as a part of the new, the new concrete work being built against and on the down stream side and over the top of old dam, both old and new parts being anchored together as well as anchored to the rock bottom so far as the rock extends within reach and further, by anchoring to a pile foundation.

This plan provides for a very substantial and permanent structure with the minimum amount of concrete masonry possible to insure stability and overcome the defects in the old dam.

At the same time specifications were prepared for such repairs on the old dam as would prevent leakage only, and bids invited in connection with the bids for a new dam.

On November 14 the following proposals were received. The amounts noted include the estimated amount of cement required as furnished by the State, which was added as \$3,856.00.

Wm. Brode	\$33,626.00
Westhafer Cons. Co.....	32,498.00
J. N. Kissner.....	22,806.00
W. H. Schott.....	24,456.00
Same, Special plan	20,744.00
Engineer's stimate	23,198.50

REPAIR SIX MILE DAM.

Two bids were secured for the repair work as specified, both in excess of \$7,000, which is out of proportion to the benefits so long as only the leakage is prevented and nothing added to the permanence of the old dam. The difference

between the cost of an entire new masonry dam and a combination of old and new at the prices bid, is about 9,000, so that the old dam has a value of that amount when used in the combination shown in plan.

The foregoing covers all the improvement work on which bids have been invited or contracts entered into for construction.

1907 WORK.

Referring to the probable extent and class of work in contemplation for 1907, the appropriation available for the new work may vary to the extent of the estimated outlay for the new reservoir at State Mill and for the proposed Six Mile Dam, both of which improvements are now pending the action of Board of Public Works.

In either event there will no doubt be funds available to carry on the masonry work of locks, aqueducts and minor canal structures from Akron to Trenton which would cover that portion of the canal over which the Tuscarawas Coal traffic would be carried.

It would seem a good policy to contract the dredging on such portions of the Akron Trenton section as are now in the worst condition as to depth of channel, in order that on the completion of the locks, at least partial use might be had of the canal for the benefit of shippers and boatmen.

The dredging is a class of work quite unlike any other part of the construction work.

DREDGING.

In the first place, dredging machinery, as built for general work as ditches, rivers and harbor work, etc., is not adapted to our canal work on account of the limitations in width and height, necessitating a width to pass through the locks and of a height sufficient to pass under bridges having only ten feet of headway.

Therefore, contractors, with few exceptions, must bid on our work without equipment, intending if a contract is awarded them, to have a dredge built, which requires months of time. It is something of a problem to determine the length of canal or yardage that should be allowed any one contractor, or which would justify a contractor to purchase plant and engage in the business with an investment of about \$10,000.

I am of the opinion, however, that contracts of 150,000 cu. yds. would justify contractors in taking contracts of the quantity mentioned.

I am also of the opinion that it would be a profitable investment for the State to own and operate at least one modern dredge on the Ohio Canal.

The State would be justified in such purchase where a contractor would not, inasmuch as the State after the canal improvement is entirely completed will have frequent occasion to use it at bars, slides, etc., while a contractor would have the plant on his hands without prospect of further work where it could be advantageously used, and would necessarily have to rebuild for use on general dredge work.

It is evident that for any considerable amount of dredging to be done in 1907, contracts should be made as early as possible to enable at least a part of the dredges to be built in time to get into operation by next summer.

During the past summer and fall, I have had the canal cross sectioned from Lock 22 north of Akron to a point about one-half way between Navarre and Bolivar.

The quantities are not computed, but that could soon be put in shape for estimating purposes.

PLANS FOR 1907.

As soon as masonry operations are at least in part suspended on account of weather, I will organize a party for a survey of locks south of Akron and preparation of plans for the rebuilding of such as may be designated as a part of the work for next season.

The construction of the proposed reservoir near State Mill, connecting with Long Lake, requires comparatively a small amount of earthwork to impound the required depth of water, and operations toward the construction of the embankments and clearing the land to be flooded can be begun early in the spring, or as soon as the purchase and occupation of the land can be accomplished.

In making estimates of the amount of new construction work which may be done with the funds available for 1907, allowance must be made in anticipation of higher prices than has been current during the past half year when our contracts were made.

The lock work now under contract is being done at extremely low prices, and the scarcity of labor and consequent increase of laborers wages coming on in the latter part of the season, has been one of the contributing causes in the delay in completing contracts, here as well as all over the country, so that many contractors having unfinished contracts on hands, as well as the scarcity of labor likely to be a continuing factor, will have the effect of lessening the number of bidders, as well as causing a material increase in prices bid on our new work. It will expedite our work under these unfavorable conditions to let the work in smaller contracts, and be governed largely by the amount of equipment possessed by the contractors and the average monthly progress he is likely to make under labor conditions, as we may expect them next year.

Every contractor, large or small, has a certain following or organization which he can bring to new work and which he can probably maintain and increase from such local labor as is available in the vicinity of the work.

The Board and the engineering department should be the judges of the size of contracts awarded, after acquainting themselves with the facts as to the contractor's previous experience, responsibility and plant for prosecuting the work.

I hope to be able to report to you in the early part of January respecting the condition of the masonry and other structures between Akron and Trenton which require either rebuilding or repairing and estimate of cost of same."

J. A. HANLON.

REPORT T. D. PAUL, ENGINEER IN CHARGE, CANAL CLEVELAND TO
PORTAGE LOCKS.

"I herewith submit my report of the work done under my supervision on the north end of the Ohio Canal during the year ending Nov. 15th, 1906.

We have constructed four additional sluice gates and one waste way 60 feet long with reinforced concrete tow path bridge.

The five mile lock No. 41 was entirely taken out and rebuilt. It was necessary to take out the bed timbers and replace them 18 inches lower than they were. Ever since the removal of the 3 mile lock the five mile lock has been too shallow for even a four foot canal; and to get a five foot depth, the only feasible plan was to lower and rebuild the entire lock.

The cost was \$10,750.00 exclusive of the gates. The dam at Brechsville on 17 mile feeder was entirely rebuilt and the old part of the Peninsula dam was also taken out and rebuilt.

At the Peninsula feeder new head gates, sluice and a tow path bridge were built of stone and concrete in a very substantial manner making a better

and more efficient arrangement than it ever was before. This will ensure a better water supply from Peninsula, north. Locks 27, 34 and 45 were also rebuilt during the year.

Gates have been completed for all the locks from 22 to 42.

Eleven miles have been dredged under a contract with D. E. Sullivan & Son from Brecksville to one mile south of Lock 41. The amount removed was 71,355 cubic yards at 15 cents per yard.

They have had a dredge constructed at Marion, Ohio.

It is a much better machine than the State dredges which were built over 30 years ago. A still better dredge could be built by the State; and in my opinion no better investment could be made, than to supply the Northern Division with dredges of proper construction, and place them in service by our own forces.

We have raised the County bridges over the canal at Alexander, Tinker's Creek, 12 mile lock, South Park and Zimmerman's, so that all the County bridges in Cuyahoga County will have 10 feet clearance.

Considerable time had been devoted to a survey of the canal; and canal lands through Akron. A base line has been laid out conforming to the canal lines; and measurements have been made with steel tapes, corrected for strain and temperature.

Angles have been checked very carefully; and the whole connected with street and block lines; which have also been surveyed and marked; so that the survey can always be retraced.

Considerable measuring has been done to locate the property lines permanently.

The canal property in Akron was merely taken by the State and there are no deeds. Nor were there any maps or plans made showing what was taken. The evidence on which we must base our title, is largely the occupation; every year encroachments are made, and evidence obliterated by adjoining owners. A complete survey should have been made years ago, as the lands are quite valuable and considerable has been lost. During the coming season we expect to finish the work in a very complete manner."

I respectfully request any specific directions that you may be pleased to offer in all matters pertaining to the conduct of the affairs of our department, promising that I will, in the future as in the past, exercise my best judgment and energies in carrying out your wishes.

I shall continue to do myself the honor of addressing to you special reports in the interests of our department on any matter requiring the particular attention of your Board.

It is my intention to request the honor of a conference in the near future for the special purpose of discussing ways and means for such a reorganization of your department as it may appear will best subserve the interests and economical management of our joint department, and the possibility of amending some of the old laws now regulating it that may seem cumbersome.

It seems to me that we are about to enter upon a new era in canal affairs requiring regulations more in accord with modern ideas of economics.

I beg to add in this connection that the management of the public works is greatly restricted by the necessity for close observance of certain laws and regulations many of which date back to the time when the public

works were first inaugurated, and which, though quite inapplicable to present methods and conditions, have never been repealed, but still remain in force.

In accordance with the provisions of law, the Board have appointed and have now in their employ, six superintendents of repairs, two on the Northern Division of the Ohio and Erie Canal, one on the Southern Division of the Ohio and Erie Canal, and three on the Miami and Erie Canal.

Under the rules and regulations of the department, each Superintendent of Repairs renders an annual report of his sub-division, giving a description of repairs and all new work done during the fiscal year, with a statement of the cost of maintenance, the name of each section and dredge foreman, with postoffice address and time of service of each in the capacity designated, and such other information relating to the particular territory under his charge as may be deemed of interest.

These reports have been rendered and are herewith submitted and made a part of this report for the year and to them I invite your careful attention, particularly to the statements contained therein showing the amount and character of the work done under the direction of each of said superintendents during the year, and demonstrating in many instances the bad physical condition of the canals and the need of general improvements and betterments. In fact, these reports reveal the undeniably worn out condition of the public works and the physical impossibility of making a creditable showing for the department, no matter what meritorious purpose the Board and its officers may exert and bend their best efforts and energies to accomplish.

It is expected that as soon as the improvements now under contemplation are made, there will no longer be the constant necessity for these many repairs, which require a large expenditure of money and consequently do so much to swell the cost of maintenance, and that your officers will therefore be able to give a greater amount of time and energy to other and more profitable fields of work, securing better results from a business point of view.

In concluding, it again gives me much pleasure to commend the integrity, energy and faithful service of the several officers employed in your general office and on the line of the public works, and to extend to your honorable Board, my thanks and the assurance of my appreciation of your kind consideration and encouragement at all times rendered me in the discharge of my official duties.

I also beg the pleasure of acknowledging in this report the kind and courteous treatment of the officials of the State Auditor's office and of the Attorney General's Department, as well as my obligations to his Excellency, Governor Harris, for the kindly treatment he has always accorded me and the absolute fairness and liberality with which he has

considered the needs of the department so far as it lay within his power to do so.

Respectfully submitted,

CHAS. E. PERKINS,
Chief Engineer Public Works of Ohio

SUB-DIVISION REPORTS
OF
SUPERINTENDENT OF REPAIRS
MADE TO THE CHIEF ENGINEER
1906
(63)

SUB-DIVISION REPORTS.

AKRON, OHIO, Dec. 20, 1906.

CHAS. E. PERKINS, *Chief Engineer Board of Public Works, Columbus, Ohio.*

SIR:—I hereby submit my fourth annual report of repairs made on Sub. Div. No. 1, Grand Div. 1, Ohio and Erie Canal during the fiscal year ending November 15, 1906.

CHAS. HATCH,
Superintendent of Repairs.

This subdivision extends from Cleveland to Navarre, a distance of seventy-two miles.

FOREMEN.

Charles Stebbins, foreman Repair Boat No. 1.

*J. I. Johnston, foreman Repair Boat No. 2.

John Moore, foreman Repair Boat No. 3.

James Roach, foreman of dredge.

LOCKS.

Kettlewell locks received two bucking beams, old stone miter sill left in and faced up with 4 x 8 timbers, lower miter sill put in and grouted also 35 x 15 ft. of lower end was sheeted with 2 in. plank.

90 ft. of the old stone wall left in on the tow-path, also 60 ft. in berm side was trimmed off from 1 to 4 in., then pointed and grouted.

The lock was cleaned of debris left in by contractor and pumped out 5 times during the season on account of heavy rains.

RED LOCK.

Red Lock received 2 new bucking beams, steel miter sill put in at upper end of locks and grouted, 18 x 15 ft. at upper end was sheeted with 2 in. plank, 50 x 15 ft. of lower chamber of locks was sheeted with 2 in. plank, 70 ft. in berm side and 60 ft. in tow-path side of the old walls were trimmed off from 1 to 5 in.

The lock was cleaned of debris left in by contractors, and water pumped out 3 times on account of springs.

LOCKS.

Wallace lock received 2 new bucking beams at upper end, steel miter sill put in at upper end. 42 x 15 ft. of lower chamber was sheeted, 16 x 15 ft. of lower chamber was sheeted with 2 in. plank.

65 ft. on berm side and 50 ft. in tow-path side of old stone wall was trimmed off 2 courses from 1 to 4 in., it was then pointed and grouted, the sand had to be wheeled in wheel-barrows across old river bed and hauled with 4 horses across plowed ground.

The lock was cleaned of debris left in by contractors.

Boston Locks received 2 new bucking beams at upper end, steel miter sill at upper end and grouted 18 x 15 ft. at upper end was sheeted, 40 x 15 ft. of lower chamber was sheeted with 2 in. plank.

*J. I. Johnston retired from the State's service just prior to the end of the present fiscal year.

Ninety ft. on tow-path side and 70 ft. on berm side of old walls were trimmed off 2 courses from 1 to 5 in., it was then pointed and grouted.

Lock was cleaned of debris left by contractors.

Lonesome Lock received 2 new bucking beams at upper end steel miter sill at upper end and grouted. 40 x 15 ft. of lower chamber was sheeted, 18 x 15 ft. of upper end was sheeted with 2 in. plank.

Ninety ft. of tow-path side and 90 ft. of berm side of old stone walls were trimmed off three courses from 1 to 6 in., it was then pointed and grouted.

Lock was then cleaned of debris left in by contractors and water kept pumped nights.

Peninsular Feeder Lock received 2 new bucking beams at upper end, steel miter sill at upper end 60 x 15 ft. of lower end of chamber was sheeted, 16 x 15 ft. of upper end of chamber was sheeted with 2 in. plank, lower miter sill put in and grouted, 90 ft. on berm side and 110 ft. on tow-path of old stone walls were trimmed off 2 to 3 courses from 1 to 5 in., then pointed and grouted.

Lock was cleaned of debris left by contractors and kept water pumped nights.

Peninsula Lock received 2 new bucking beams at upper end, lower miter sill put in and grouted. 115 x 15 of lower chamber was sheeted with 2 in. plank.

Lock was cleaned of debris left in by contractors.

Johnny-cake Lock 50 x 15 ft. at lower chamber sheeted, 16 x 15 ft. at upper end of lower chamber sheeted, 16 x 15 ft. at upper end of lock was sheeted with 2 in. plank.

Seventy ft. on tow-path side, 60 ft. on berm side of old stone walls were trimmed off 2 to 3 courses from 1 to 4 in. in depth, then pointed and grouted.

CANAL BANKS RAISED AND REPAIRED.

A concrete sluice on 8 mile level (north of pumping station) went out causing a break in bank 80 ft. long, 40 ft. wide, 20 ft. deep.

Fifty sticks of dynamite were used to clear away debris of concrete sluice.

On 8 mile level over culvert a retaining wall 3 x 12 x 6.

On 8 mile level on berm side a retaining wall 35 x 24 x 10.

After finishing work culvert broke and work all had to be done over.

On 11 mile level at ends of culvert tow-path side 36 x 18 x 9.

On 11 mile level a retaining wall berm side 36 x 8 x 7.

WASTE WEIRS AND TUMBLES.

Built wooden trunk 100 ft. long, 8 ft. wide, 4 ft. high around 5 mile lock to carry water to manufacturers while lock was being built.

New concrete waste weir at 8 mile lock was cut down 15 in.

New concrete waste weir at 11 mile lock was cut down 12 in.

Waste weir at Lock 10 (Akron) filled.

Waste weir at Lock 5 (Akron) lowered.

Waste weir at Lock 2 (Akron) lowered.

New concrete waste weir at Lock 1 (Akron) lowered.

Waste weir at Lock Wolf Creek grouted.

TOWING BRIDGES.

Towing bridge on Long Pinery, new plank put on.

Towing bridge at Peninsula, 2 stone abutments 15 ft. long, 9 ft. high with concrete covering 1 ft. thick, 12 ft. wide, 11 ft. long, also reinforced with steel rails and wire netting.

DAMS.

Brecksville dam was repaired with 3 one ft. timbers, also filled with concrete and planked, length 150 ft.

A false dam was built at Brecksville 150 ft. long, 4 ft. high.

Peninsula Feeder Dam was torn out at west end, a distance of 45 ft. and repaired with 1 ft. sq. timbers which were 3 timbers high in front, 2 timbers high in back, it was then cross tied with 4 x 12 timbers 12 ft. long, paved with stone and graveled.

A false dam built 75 ft. long, 5 ft. high.

FEED GATES.

At east end of Peninsula the old flood gates and stone abutments were torn out and relaid. The walls are 4 ft. thick, 12 ft. long, 12 ft. high, also 2 new flood gates.

At upper end of Peninsula Feeder 2 new concrete walls were built, one 3 ft. thick, 16 ft. long, 12 ft. high; one 3 ft. thick, 28 ft. long, 12 ft. high; one new feeder gate.

DREDGES AND BOATS REPAIRED.

State Boat No. 1 repaired as follows: 32 new floor timbers, new dunage floor, 26 new carlin and new gravel deck, new canvas in stern deck.

Boat scraped and 3 coats of paint, also 2 coats on cabins, new nails.

AQUEDUCTS.

Eight mile aqueduct was cleaned of debris left in by contractors, put in flood gates on berm side.

Twelve mile aqueduct was cleaned of debris left in by contractors, twice during summer.

Peninsula aqueduct repaired as follows: new plank and concrete at north end, timber for gate to rub against, cut holes in stone for gates and concreted around timber, timber put from walls to top of aqueduct to clear tow-lines, and built concrete blocks to hold railing at end of towing bridge.

MISCELLANEOUS.

Removed bars north and south of 8 mile lock left by contractors.

Removed 2 bars at culvert south of 8 mile aqueduct dams, were 3 ft. high, 40 ft. long.

Removed 2 dams on 11 mile level.

Removed 2 dams at Kellog's culvert 3 ft. high, 40 ft. long.

Removed 2 dams at 12 mile lock.

Removed 2 dams at 14 mile lock.

Removed 1 dam at 17 mile lock.

Removed 2 dams at Kettlewell.

Removed 2 dams at Red Lock.

Removed 2 dams at Wallace.

Removed 2 dams at Boston.

Removed 1 dam at Feeder.

Removed 1 dam at Peninsula.

Built dam across canal north of pumping station 50 ft. long, 4 ft. high, where sluice went out so American Steel & Wire Co. could get water.

Helped haul lumber and cement to repair sluices and culverts on 8 mile levels.

Boated dirt to fill up in front of 1st and 2nd sluices south of 5 mile lock.

When locks were first filled from Lock 17 to Cleveland had to keep men cleaning paddles and tumblers.

Boated dirt and gravel to stop leaks on 8 mile level.

Broke ice 3 days in Feb. on 8 mile level trying to get boat to 17 mile lock but could not.

Took Chief Engineer, Board of Public Works and State Senators on an inspection trip from 17 mile lock to Cleveland.

Raised sunken boat "Two Sisters", loaded with logs. Raised State Boat No. 2 and House Boat on peninsula level.

Cut brush and posts to build fence 300 ft. long, 3 ft. high, around "Devil's Elbow," to hold dredge dirt from going into river.

Unloaded 120 sacks of cement at Brecksville and used same in pointing and grouting locks.

Unloaded 1 car crushed stone at Peninsula for feeder walls.

Unloaded 120 sacks of cement at Boston for grouting locks.

Unloaded 7 iron pipes at Boston used at sluice.

Built 2 dry stone walls on each side of Peninsula feeder 5 ft. high, 30 ft. long, pointed them.

Washed 17 mile lock feeder 3 times.

Cleaned out feeder at Peninsula down to shale rock 75 ft. long, 2 ft. deep, 10 ft. to 15 ft. wide and piled back of feeder walls.

Grouted back of all the Hollow Quoins from 17 to Peninsula.

All of the foregoing work has been done between Cleveland and the Portage Lock, and charged by monthly abstracts accounts to the Canal Improvement Fund that was made by the Legislature extending from Cleveland south.

Lock was unwatered with steam engine.

All locks cleaned from 4 to 16 (Akron).

Coping stone set back at Lock 1 (Akron).

Navarre lock was repaired with brick and cement cribings, torn down and rebuilt and debris removed.

Lower lock at Massillon, cribings were rebuilt and debris taken from bottom.

Upper Massillon lock, cribings were rebuilt and debris cleaned from bottom.

Fulton lock repaired with bricks and cement, cribings rebuilt and debris cleaned from bottom.

Clinton Locks repaired with brick and cement, cribings rebuilt and debris cleaned from bottom.

Wold Creek Lock cribings rebuilt, blocks of timber used to fill in where stones have fallen out, debris cleaned from bottom.

LOCK GATES.

Fulton Lock, new fender plank on gates, one new balance beam on upper gates.

Wolf Creek, new fender plank on lower gates.

A distance of $2\frac{1}{2}$ miles between 14 and 17 mile locks was levelled off after dredge.

Bank Bell Line Bridge to Mud Run Culvert was raised with gravel and cinders.

Banks around Summit Lake about $\frac{3}{4}$ of way of Lake frontage raised with stone, broken sewer pipe, gravel and cinders.

Banks at Long Lake Channel between river and feeder bridges $3\frac{1}{2}$ ft. high, 25 ft. wide and 150 ft. long, gravel and cinders.

CANAL BANKS RAISED AND REPAIRED.

Navarre level tow-path raised 700 ft. long, 1 ft. deep.
Massillon level tow-path raised 3000 ft. long, 1 ft. deep.
Massillon level berm-bank raised 200 ft. long, 10 ft. high.
Fulton level tow-path raised 4150 ft. long, 1 ft. high.
Fulton level berm-bank raised 300 ft. long, 10 in. high.
Wolf Creek level tow-path raised 1250 ft. long, 1 ft. high.
Summit level south end tow-path raised 500 ft. long, 8 in. high.
Culvert on Fulton level was cleaned of debris and wing wall repaired.
Two culverts on Fulton level were cleaned of debris and wing wall repaired by placing old stone back in place.
Culvert on Wolf Creek level was cleaned of debris.

WASTE GATES.

New waste gates placed 1 mile north of Massillon, 12 ft. wide, 12 ft. wide.
Concrete main walls were 24 ft. long, 12 ft. high.
Thickness of main walls $3\frac{1}{2}$ ft. at bottom, $2\frac{1}{2}$ ft. thick on top.
Wing walls 16 ft. long, 12 ft. high, 2 ft. thick.
Conduit to river 24 ft. long, 12 ft. wide.
Waste gates at Trenton bridge repaired and 2 ratchet timbers and ratchets placed in position.
Waste gates at Cemetery bar new stone and ratchet.
New bridge at Lock 15 (Akron).
New bridge at Lock 16 (Akron).

DAMS.

Dam at Lock 21 (Akron) was cleaned of debris.
Dam at Tuscarawas was repaired.
Dam at Millport feeder was cleaned, new timbers put in, sheet piled and filled with gravel and backed up with gravel.
Dam at Fulton feeder repaired with 40 yards stone, 60 yards gravel, new timbers put in and sheet piled.
Dam at Clinton Creek was repaired with 75 yards of gravel and stone put in place.
Dam at Wolf Creek level repaired with 80 yards of gravel and stone replaced.

DREDGING.

On Division No. 2 195 cubic yards hand dredged.

BARS REMOVED.

Bars removed at sand bridge 40 cubic yards.
Bars removed at Campbell bridge 30 cubic yards.
Bars removed at Guard Lock 50 cubic yards.
Bars removed at Taylor St. 50 cubic yards.
Bars removed at Portage 25 cubic yards.
Bars at Warmington bridge taken out 3 times, 75 yards removed.
Bars south of Warmington bridge taken out 3 times, 80 yards removed.
Bars at Cemetery bar bridge taken out 4 times, washed through sluices into river, 4000 yards of gravel.
Bars on Massillon level removed by hand dredge as follows:
South of Fulton Lock 25 yards.
At Millport Feeder 36 yards.

At Bridgeport bridge 47 yards.

At Bridgeport waste weir 45 yards.

At Cherry St. bridge 36 yards.

At South St. bridge 28 yards.

At Russell's shops scraped and wheeled 3 times, 15 ft. long, 40 ft. wide, 2 ft. deep.

Bars on Fulton level by hand dredge as follows:

South of Clinton lower lock 32 yards.

At Clinton Creek 120 yards.

At Clinton Bridge 16 yards.

At Fulton Bridge 28 yards.

South of Fulton bridge 12 yards.

North of Fulton bridge 26 yards.

Bars on Wolf Creek level by hand dredge as follows:

At Wolf Creek Lock 24 yards.

At Nile bridge 18 yards.

North of Red bridge 19 yards.

At Red bridge 22 yards.

South of Red bridge 27 yards.

Halfway bridge 26 yards.

WEEDS AND BRUSH CUT.

Brush cut a distance of 2 miles on 8 mile level on berm bank.

Brush cut a distance of 2 miles on 8 mile level on tow-path.

Brush cut a distance of $\frac{1}{2}$ mile on 14 mile level on tow-path.

Brush cut a distance of 2 miles on Long Pinery on berm bank.

Brush and weeds were cut from Lock 1 (Akron) to feeder, also around basin at Lock 1 (Akron).

Brush cut on tow-path on Navarre level.

Brush cut on tow-path on Massillon level.

Brush cut on tow-path on Fulton level.

Brush cut on tow-path on Wolf Creek level.

Brush cut on tow-path on Summit level.

GRASS CUT.

Grass cut twice from Wolf Creek Lock to feeder and once from feeder to Salt Works, also in Portage Lakes and channels twice during summer.

Seventy-seven miles of grass cut on Division No. 3 from channels.

Twelve miles of grass cut on Division No. 3 from feeder.

FEEDERS.

Grass cut in channel entire length of Tuscarawas Feeder.

Millport Feeder bank was raised 400 ft., also 3 breaks filled, 25 ft. long, 7 ft. deep; 30 ft. long, 6 ft. deep; 22 ft. long, 5 ft. deep.

Fulton Feeder banks were raised 800 ft., bars wheeled out 3 times and break filled, 50 ft. long, 8 ft. deep; 35 ft. long, 6 ft. deep; 30 ft. long, 7 ft. deep; 25 ft. long, 5 ft. deep; 20 ft. long, 8 ft. deep; 40 ft. long; $4\frac{1}{2}$ ft. deep; 45 ft. long, 6 ft. deep.

Mucker also repaired.

Furnace Run and Sand Run aqueducts were cleaned of debris twice during the year, rods replaced on Furnace aqueduct.

Wolf Creek aqueduct was cleaned of debris twice, also caulked with saw-dust and gravel.

MISCELLANEOUS.

Boated one car load of lumber from Massillon to Akron.
 Took steam dredge and mucker to Salt Works.
 Boated 16 mucker loads from dredge at Salt Works to tow-path.
 Raised and relaid side-walk on State ground on Exchange St.
 Took out spiles in Basin at Lock 1 (Akron).
 Raised hand dredge at R. R. bridge.
 Removed stone from guard lock.
 Unloaded two boat loads of gravel at Lock 1.
 Boated 120 loads of mud from bank put there by steam dredge.
 Boated 6 loads of cinders for tow-path.
 Boated 2 loads of broken sewer pipe for tow-path.
 Boated 2 loads of brick and chuck for tow-path.
 Boated 1 load of dirt for dam at Lock 1.
 Boated 3 loads of dirt for dam at Mud Run.
 Boated 1 load of sewer pipe at Mud Run Culvert.
 Boated 4 lots of lumber and cement at Mud Run Culvert.
 Raised 100 ft. of dock south of float bridge.
 Rolled all stone out as far as we could reach back to tow-path for protection around Summit Lake tow-path.
 Dug out old wooden culverts at Locks 4, 5, 9 and repiled after new ones were put in.
 Took down derrick at Lock 11 and loaded into wagons.
 Took down steam pump at Mud Run and took to Akron.
 New valve house and foundation at East Reservoir.
 Tore out old waste weir at Lock 1 and replaced with new concrete weir and bridge.
 New concrete retaining wall from waste weir north to Lock 1 (Akron).
 Helped to put in dam at Lock 1 also dams at Mud Run Culvert.
 Put in dams at Locks 1, 2, 3, 7 and 8 Akron.
 Put in flumes at Locks 2 and 8 Akron.
 Filled breaks on Massillon level 65 ft. long, 12 ft. deep.
 Filled breaks on Fulton level 60 ft. long, 10 ft. deep.
 Put in new revetments under 3 bridges on Summit level.
 Put in new revetments under 2 bridges on Massillon level.
 Put in new revetments Fulton level 300 ft. long.
 Put in new revetments Mile bridge on Wolf Creek level.
 Boated 2 loads of gravel from Cemetery bar to Akron.
 Boated 1 load of lumber from Dover to Barberton.
 Boated 27 loads of dirt from steam dredge.
 Took 7 trees out of canal.
 Raised 3 sunken boats.
 Took stone, etc., out of bottom of canal on following levels: Navarre, Massillon, Fulton, and Wolf Creek.

WORK DONE BY STEAM DREDGE.

On Massillon level, No. of yards none.
 On Massillon level, raising tow-path 6455 ft.
 On Fulton level, No. of yards from bars, 400.
 On Fulton level, raising tow-path 6835 ft.
 On Wolf Creek level, No. of yards from bars, 200.
 On Wolf Creek level, raising tow-path 1110 ft.
 On Summit level, No. of yards from bars, 4725.

On Summit level, raising tow-path 3690 ft.

Report of repairs needed on Ohio Canal from Lock No. 1, Akron to Navarre Lock.

Tow-path and berm banks riprapped on Summit Level.

New bridge at south end of Summit Lake in place of old floating bridge.

Towing path raised from Waterloo Bridge to Wolf Creek Lock.

Berm bank raised from Mud Run south, a distance of 600 ft.

New high water waste-weir south of Summit feeder.

One pair of waste-gates 100 ft. north of Wolf Creek Lock.

New walls and new gates at Wolf Creek Lock.

Banks raised on Wolf Creek Level.

New abutments under aqueduct on Wolf Creek level.

One new sluice south of Red Bridge on Wolf Creek level.

One new sluice north of Clinton Locks on Wolf Creek level.

Brush cut on tow-path and berm bank on Wolf Creek level.

New walls and new gates at Clinton Locks.

New bridge on Short level at Clinton Locks.

New change bridge at Clinton lower lock.

One new bridge at Clinton Creek dams.

New timber on concrete dam at Clinton Creek.

New walls and 4 new gates at Clinton guard lock.

Tow-path and berm banks raised on Fulton level.

Brush cut on both sides of canal on Fulton level.

Dredging from guard lock to Fulton Lock.

One new sluice 1 mile south of Clinton.

One new sluice 200 ft. north of Fulton Lock.

One new high water waste-weir 1 mile north of Fulton.

New walls and new gates at Fulton Lock.

New channel and tumble wall around Fulton Lock.

Tow-path and berm banks raised on Massillon level.

Brush cut on both sides of canal on Massillon level.

One new sluice at Millport on Massillon level.

One new high water weir at Butter bridge, Massillon level.

One new high water weir at Bridgeport, Massillon level.

Tow-path riprapped from Massillon to Willow Bank, Massillon level.

Dredging from Fulton Lock to Massillon Locks.

New revetment on tow-path under Main St. bridge, Massillon.

New gates and new miter sills at Massillon Locks.

Tow-path raised on Navarre level.

Brush cut on towing-path and berm side of canal.

New sluice at Cemetery Bar.

New retaining wall on berm side at Cemetery Bar, and aqueduct across top of canal from berm side to river.

New sluice $\frac{1}{2}$ mile north of Navarre.

New walls and new gates at Navarre Lock.

New bridge at high water waste weir in Navarre.

Dredging from Massillon Lock to Navarre Lock.

FEEDERS.

Channel in Fulton feeder made wider and deeper.

Banks raised and made wider.

New waste weir in dam.

New trunk at outlet of Millport feeder.

Channel made deeper and wider.

New feed gate and waste gate at head of feeder.

I have given the above statement of repairs needed as it has been the Superintendent's usual custom, with the understanding that all of their needed improvements will be taken care of by the general improvement now under contemplation for the coming year by authority of a Special Improvement appropriation made for that purpose by the Seventy-seventh General Assembly.

I would respectfully recommend the buying new improved machinery for new dredge, constructing the hull by our own carpenters, they being boat builders. Knowing well it will be more serviceable and better built than by contract.

Summit level is nine miles long, three of which it is impossible to land dirt on either side, said level is never drawn, and dredge I believe could be better operated by Chief Engineer with better success than by contract.

In regard to the proposed new reservoir I consider it a necessity and should be constructed at once, as the leases for water rents are becoming so great that the present reservoir system will not furnish a sufficient supply, as in January 15, 1904, the supply of water in our present reservoir was entirely gone.

OFFICE OF THE SUPERINTENDENT OF REPAIRS.

COSHOCOTON, OHIO.

MR. CHAS. E. PERKINS, *Chief Engineer, Columbus, Ohio.*

DEAR SIR:—I have the honor to submit to you herewith my eleventh annual report of repairs made and labor performed on the Second Sub-division of the Northern Division of the Ohio Canal, during the fiscal year ending November 15th, 1906.

This sub-division includes the following portions of the Ohio Canal from Navarre on the north to the outlet lock on the Muskingum River at Dresden on the south, a distance of 81 miles; the Walkonding feeder from Roscoe to dam on Walkonding River, a distance of six miles; the Trenton feeder, three miles in length and Sugar Creek, three miles in length, making in all 93 miles.

L. P. Wilson, Foreman of Repair Boat No. 1. Newcomertown, Ohio, 21 years service.

A. L. Norman, Foreman of Repair Boat No. 2, Roscoe, Ohio, 6 years service.

There are on this sub-division 2 repair boats; one boarding boat, one steam dredge, one steam pump, one first-class derrick complete, four wheel scrapers and four hours. We also have numerous tools, and appliances, an inventory of which has been sent to you on a separate blank by the foreman of the several sections.

AQUEDUCTS.

There are four aqueducts on this sub-division:

Bolivar aqueducts, 3 spans, total length 170 feet.

Orange aqueduct, 1 span, total length 30 feet.

Roscoe aqueduct, 5 spans, total length 310 feet.

Dresden aqueduct, 3 spans, total length 140 feet.

CULVERTS.

There are 37 culverts on the sub-division of which the following are in good condition:

One at Coalport on Roscoe level.

One at Lewisville on Lewisville level.

Two " on White Eyes level.

One " on Newcomertown level.

One " on Lock Seventeen level.

One " on Lock Port level.

The above are all large culverts having 10 feet arch. The remainder are 4 feet and 5 feet arch and are either submerged or in very bad condition.

DAMS.

There are four dams:

One at Zoar on Tuscarawas River.

One near Trenton on Tuscarawas River.

One six miles west of Roscoe on Walkonding River.

One at Dover on Sugar Creek.

LOCKS.

There are 28 lift locks with an average lift of 8 feet and 4 guard locks making in all 32:

I am pleased to be able to state that, while we had a great amount of rain during the season, delaying our work to some extent, there were no serious floods and no damage done with the exception of 250 lineal feet of towing path a mile south of Trenton which was damaged to such an extent, by an ice gorge which formed in the river at that point, that it required 200 piling from 20 to 23 feet in length, and 400 cu. yds. of stone to repair and protect it. The stone used were taken from the lower lock now being built at Trenton (No. 16). Also a few small breaks.

A great source of annoyance to us during the entire year, and which was never experienced by us before, was the scarcity of laborers. It was impossible to get as many as we needed, a part of the time the Foremen having only two or three men when they should have had from six to ten to do the necessary work, and think it probable that foreign labor will have to be used next year.

A matter to which I wish to call your attention is that I have only two Foremen to look after 81 miles of main Canal and 12 miles of feeders, making in all 46 miles for each Foreman, which is entirely too much for one Foreman and crew to look after and keep in proper repair. I therefore recommend that there be another Repair Boat built and another Foreman appointed for the coming year. We should also have a Dredge, as the lower portion of my division from Newcomerstown south has become very shallow and should be dredged at once. Of course we remove the bars from time to time, but the entire Canal is gradually filling up, not having been dredged out for a number of years. The old dredge was taken to Akron three years ago.

The only new structures on my division are the out-let lock at Dresden connecting the Canal with the Muskingum River at that point. The work was done by contract by Clifton Bros., of Zanesville, Ohio. And lock No. 16, at Trenton which is now nearly completed. The above mentioned improvements were done under an act and paid for by an appropriation made by the last General Assembly for the improvement of the Ohio and Erie Canal between Dresden and Cleveland.

REPAIRS MADE.

Aqueducts.

The hooding of both chords of Bolivar aqueduct was repaired.

The floor of Orange aqueduct was respiked and the sides lined up.

Dresden aqueduct received new plank in trunk and new top strips.

The Roscoe aqueduct which is the largest between Dresden and Cleveland is in a very dangerous condition and liable to collapse at any moment. No repairs were made on it as it would be very impracticable to waste money on the old structure, and would recommend that a new one be built the coming season.

BANKS RAISED.

Ten mile level south of Navarre.....	335 x 10 x 1	3,350 cu. ft.
Six mile level south of Zoar.....	340 x 10 x 1	3,400 cu. ft.
Two mile level north of Dover.....	480 x 10 x 1	4,800 cu. ft.
Dover level	683 x 10 x 1	6,830 cu. ft.
Lock Port level.....	265 x 10 x 1	2,650 cu. ft.
Total number of cu. yds. on Wilson's Division.....		778 cu. yds.
Two mile level south of Newcomerstown.....		240 cu. yds.
Berm bank of Roscoe basin.....		80 cu. yds.
Towing path, Roscoe basin.....		60 cu. yds.
Towing path at Norris' bridge near Dresden.....		60 cu. yds.
Berm bank at Norris' bridge near Dresden.....		30 cu. yds.

On Walhonding feeder near Clark's bridge.....	200 cu. yds.
On Walhonding feeder near six mile dam.....	200 cu. yds.
Grand total	1,648 cu. yds.

BARS REMOVED WITH SCRAPERS.

On ten mile level near Navarre flood gates.....	40 x 1 x 20	800 L. ft.
On six mile level near Barkheimers run.....	375 x 2 x 20	15,000 L. ft.
On six mile level near Hardwidges chutes.....	315 x 2 x 20	12,600 L. ft.
On six mile level near Lock No. 11.....	60 x 2 x 20	2,400 L. ft.
On two mile level below Lock No. 1.....	125 x 2 x 20	5,000 L. ft.
On two mile level north of Schillings bank.....	50 x 2 x 20	2,000 L. ft.
On two mile level at Schillings bank.....	40 x 2 x 20	1,600 L. ft.
On two mile level near waste weir.....	105 x 2 x 20	4,200 L. ft.
On Sugar Creek level near Lock No. 12.....	130 x 2 x 20	5,200 L. ft.
On Lock Port level near mile bridge.....	345 x 2 x 20	13,800 L. ft.
On Upper Trenton level near Simons run.....	65 x 2 x 20	2,600 L. ft.
On Lower Trenton level near Nevings run.....	46 x 2 x 20	1,840 L. ft.
On Port Wash. level near Port Washington.....	90 x 2 x 20	3,600 L. ft.
On Glasgow level	96 x 2 x 20	3,840 L. ft.

Wilsons Div. Grand Total, 74,480 cu. ft. or..... \$2,758 cu. yds.

Norman's Division. Bars continued.

On two mile level near Suddams lock sluiced 3 times.....	150 cu. yds.
On Orange level near Orange.....	30 cu. yds.
On Blue Hole level at Flint run scraped out 3 times.....	250 cu. yds.
On Blue Hole level at Turkey lock scraped out 4 times.....	160 cu. yds.
On Lewisville level near Lewisville wheeled out.....	30 cu. yds.
On ten mile level at Roscoe wheeled out.....	200 cu. yds.
On ten mile level at Hack's farm wheeled out 2 bars.....	60 cu. yds.
On ten mile level at Doles run.....	50 cu. yds.
On ten mile level at Coal Port, 2 bars.....	120 cu. yds.
On ten mile level at Conesville scraped out.....	650 cu. yds.
On Dresden level at Adams' Mills scraped out.....	200 cu. yds.
On Dresden level at Norris bridge scraped out.....	60 cu. yds.
On Dresden level at Dresden, 3 bars.....	150 cu. yds.
On Walhonding feeder at Dorsey's run.....	50 cu. yds.
On Walhonding feeder at guard lock.....	150 cu. yds.

Total 2,310 cu. yds.
Total Wilson's Division..... 2,758 cu. yds.

Wilson's & Norman's Division..... 5,068 cu. yds.

BREAKS REPAIRED.

On Sugar Creek level six breaks averaging.....	50 x 6 x 20	3,600 cu. ft.
On Dover level near B. & O. bridge.....	40 x 6 x 10	2,400 cu. ft.
On Dover level near C. & M. trestle.....	100 x 6 x 10	6,000 cu. ft.
On Trenton feeder	200 x 5 x 10	10,000 cu. ft.
On Dresden level near Norris bridge.....	10 x 6 x 10	600 cu. ft.

Total 22,600 cu. ft.

BRUSH CUT.

Brush and weeds on 35 miles of berm bank on Wilson's division were cut, and on 25 miles of towing path, also trees were trimmed.

On Norman's division brush and weeds were cut on 33 miles of towing path, and on 11 miles of berm bank and trees trimmed.

The towing path on Walhonding feeder was moved twice and the berm bank $2\frac{1}{2}$ miles was cleared of trees and brush.

CULVERTS.

McGuire's culvert was repaired with cement and brick.

All culverts on the division were cleaned several times.

The big arch culvert at Hights on Walhonding feeder which had become almost submerged, was cleaned out and to drain it, required a ditch 100 ft. long and 6 feet deep.

DAMS.

The drift was removed from Zoar dam and stone relayed 200 ft. and re-graveled twice during the season.

Sugar creek dam was re-graveled and a 6 x 6 strip run the entire length of sheeting.

The wooden crib at south end of Walhonding dam was re-filled with rip rap stone requiring 75 cu. yds. and the earth wing south of crib was repaired with 84 yds. of rip rap stone and the protection wall 310 feet long was relaid. The drift was removed a number of times during the year.

DREDGING.

There was no dredging done on this division because we have no dredge, and all the cleaning we can do has to be done with wheelbarrows and scrapers.

LOCKS.

Zoar lock No. 9 — Mitre-sills repaired and heel posts on both gates were spliced.

Lock No. 10 — Mitre-sills bolted down and floor partly re-sheeted.

Lock No. 15 — One new balance beam and snubbing post.

Lock No. 16 — 2 pairs of new gates, complete.

Lock No. 17 — Both chamber walls dressed off, set back and pointed.

Lock No. 18 — Both chamber walls dressed off, set back and pointed.

Lock No. 20 — One pair new gates, snubbing post and walls set back.

Lock No. 21 — Cleaned of mud and one snubbing post.

Lock No. 22 — One new balance beam.

Lock No. 23 — One new balance beam.

Lock No. 24 — Cleaned of mud and repaired with 250 brick and 9 sacks cement.

Lock No. 26 — One new balance beam.

Lock No. 27 — One new balance beam and 1 pair new gates.

Locks 28, 29 and 30 — We cleaned of mud and silt.

The two outlet locks at Dresden were repaired with new floors, using 10,000 feet of lumber 20 yards of concrete and 8 pilasters were built of cement, one on each wing of each lock making 64 cu. yds.

SLUICE WAYS.

Turkey Lock sluice way was repaired with 500 paving brick and 2 bbls. cement.

Adams Mills repaired with 400 ft. of 6 x 12 oak lumber.

WASTE WEIRS.

The two waste weirs on ten mile level south of Navarre were repaired with 45 yards of rip rap stone.

Sterlings, on Dover level, repaired with 2 boat loads of slag.

Sugar creek, stone relaid and graveled 265 feet.

Lock 17 level, stone relaid.

Port Washington level, stone relaid and graveled.

Glasgow level, stone relaid.

Newcomerstown level, stone relaid.

Owing to the scarcity of labor and the need of the stone for protecting the embankment and to open up navigation as soon as possible I had Foreman Wilson and Norman assist Mr. Kissner 20 days in his work on the lock at Trenton for which labor he is to pay the State in full in his final settlement.

White Eyes, ends concreted and re-graveled.

New Adams' Mills, cut down and repaired with stone.

The tumble wall of Lock 15 was repaired with 300 bricks and grouted with cement.

STONE PROTECTIONS AND PILING.

400 cu. yds. of stone were placed and 200 piling driven to protect the towing path from the encroachment of the river one mile south of Trenton.

The embankment at the north side of the lower basing at Roscoe was protected with 200 cu. yds. of stone, and the towing path on the east side of same basin was protected with 20 yds. of stone.

REPAIRS NEEDED.

WASTE WEIRS.

Two waste weirs on ten mile level south of Navarre should be rebuilt with concrete, also one on two mile level near Zoar, and one on six mile level south of Zoar.

The tumble wall at Locks Nos. 8, 12, 13, 15, and 17 should be rebuilt as they are in very bad condition.

DAMS.

The dam at Zoar and one near Trenton, two of the most important dams on the Division are in extremely bad condition and I would recommend that they be rebuilt early in the coming season.

SLUICE OR FLOOD GATES.

There should be two sluice ways put in on six mile level south of Zoar, one on two mile level between Zoar and Dover, one on lower Trenton level near Negro Basin, two on Emerson's level at Blue Hole and Flint Run, one on Lewisville level near McGuires, two on ten mile level, one at Roscoe and one at Conesville.

LOCK WALLS AND GATES.

Locks 8, 9, 13, 15, 17, 18, 20 and 23 should be rebuilt.

Locks 8, 14, 17, 18, 19 and 20 should have 1 pair balance beams each.

The three Walhonding locks at Roscoe should have 1 pair of new gates each.

CULVERTS.

At Beasles. Should be rebuilt about 14 feet.

Oné six mile level near Zoar Middle Run, about 30 feet of lower end should be rebuilt.

At Stone Creek. Two-thirds of it in very bad condition.

Oldtown. Should be rebuilt.

Goshen. The east end should be rebuilt about 30 feet.

On Dresden level near Norris bridge. In very bad condition and should be rebuilt.

MISCELLANEOUS.

On account of not having a suitable place to keep our tools on the northern part of the division and to house the State Team when working in that vicinity, we erected a building 16 x 32, lumber costing \$150.00 and labor performed by one carpenter and our Foreman. Total cost about \$275.00.

One new coal dock was built at Ninneveh for Hill Bros. Several sunken boats were raised and other miscellaneous repairs made.

The repair boats were out from April 5 to November 5. The working days were 183.

Taking into consideration the condition of our dams, etc., an excellent stage of water has been maintained throughout the season and no complaints have been made. On account of navigation being closed between Akron and Cleveland owing to improvement of the Canal, and the coal strike early in the season, there has been very little boating done, only two mines with four boats and one grain boat running the season.

In my report of last year I mentioned having contracted for 600 cu. yds. of rip rap stone to be delivered on the banks of the Walhonding feeder to complete the protection of the Walhonding embankment, but owing to the scarcity of teams and labor the man with whom the contract was made could furnish only 100 cu. yds. leaving 500 cu. yds. to be carried over till next season.

Again I will state that every effort has been made by me to economize and keep the expense of that part of the Canal under my control within the appropriation allowed, and to this end I shall labor while I have the honor to manage and control any part of the Ohio Canals.

Thanking you for the kind and courteous treatment accorded me in the past and for all favors shown me in the discharge of my official duties, I bring my report to a close.

Very respectfully submitted,,

C. H. GEIDEL,
Superintendent.

OFFICE OF SUPERINTENDENT OF REPAIRS.

PORTSMOUTH, OHIO, Nov. 16, 1906.

CHAS. E. PERKINS, *Chief Engineer of Board of Public Works, Columbus, Ohio.*

DEAR SIR:— I have the honor to submit the Annual Report of repairs made on Sub-Divisions No. 3 and 4, Grand Division, No. 2, Ohio and Erie Canal for the fiscal year ending November 15th, 1906.

Sub-Division No. 3 extends from Dresden side cut to Lockbourne including the Licking Reservoir and Kirkersville Feeder, a total distance of Seventy-three miles. Sub-Division No. 4 extends from Lockbourne to Portsmouth, a distance of eighty-nine and three-fourth miles, including the Columbus Feeder, eleven miles in length, making a total length of one hundred and three-fourths miles.

FOREMEN.

S. M. Brown, nine years service, Newark, Ohio.

Alex Richardson, twenty-six years service, Carroll, Ohio.

W. H. Kirkendall, twenty years service, Circleville, Ohio.

C. W. Watkins, six years service, Waverly, Ohio.

PROPERTY AND TOOLS.

There are four repair boats, one steam pump, one pile driver and portable engine to operate the same, two flat boats, one 30 ft. long by 12 ft. wide, the other 22 ft. long by 6 ft. wide, and 20 in. deep with two sets of oars, the latter boat to be used repairing the banks of the Buckeye Lake. Four horses and harness for same. Two-horse wagons, one-horse wagon and harness. Two top buggies and other tools and appliances, a return of which has been furnished the office at Columbus.

AQUEDUCTS.

The Lake run aqueduct was repaired with one new brace timber on north end of berme bank side. The aqueduct north of Carroll over Walnut Creek was repaired with new floor timbers, posts and new plank. Also a string of sheet piling was driven 68 ft. long and 12 ft. in depth. Earth work dug out and refilled. Circleville aqueduct was repaired with some new floor timbers and plank for siding. Rebuilt three spans of the Yellow Bud Aqueduct complete. Rebuilt the Deer Creek Aqueduct except one-half span, and raised the entire aqueduct 8 inches from end to end and put in two new hanging beams in the $\frac{1}{2}$ span that was left. Put in bulk head at Paint Creek Aqueduct. One new span at Stony Creek was rebuilt complete, and the remainder of aqueduct was repaired in the way of flooring and siding, and one pair of new truss braces and posts. Repaired Waverly Aqueduct with 20 new posts and 60 ft. of new cap or cord, 60 ft. of siding and several braces.

LOCKS.

The South lock north of Baltimore had some extensive repairs by digging out the earth from behind the walls and refilling the same. Put in two bulk heads of 3 in. oak timber and 70 ft. of a line of sheet piling of 2 in. oak was driven and refilled with earth. Baltimore Lock at Paper Mill where the gates gave way was replaced with new bulk head and all the earth work around the lock was refilled. Lockville Guard Lock at Walnut Creek was repaired with new bulk head and refilled with earth. Canal Winchester Lock received new bulk head and refilled behind the walls with earth.

Tumble way dug out the length of 90 ft. Carroll Lock received new bulk head and earth dug out from behind the walls and refilled. The earth work around the Groveport Lock was repaired and paddles recleated. Lockbourne Lock was repaired by refilling of earth behind the walls. Paddles recleated and stems overhauled. The 18 mile lock at Marfield's Mill was repaired by jacking back the walls, new concrete work under the floor behind and in front of the gates and new floor. The 4th and 5th street locks at Chillicothe were both cleaned out twice. Vesters, Lunbecks, Upper Middle and Lower 3 locks, Highbys Guard Lock, Waverly Upper, P. P. Lower and Jasper Guard Locks were all cleaned out several times.

LOCK GATES.

Put in 3 new gates complete in the 18 Mile Lock at Marfield's Mill upper lock. Two new gates were put in complete at 5th Street lock in Chillicothe and one gate set in same lock and one at P. P.

CULVERTS.

The double culvert at Rample Creek was repaired by replacing new timbers which washed away and refilled with stone, gravel and cement. The 3 mile culvert north of Circleville was cleaned out four times. Culvert on 6 mile level north of Carroll was cleaned out three times. All of the culverts between Chillicothe and Waverly were cleaned out two times and Dry Run culvert was cleaned of all debris and gravel scraped out.

DAMS.

Put in new abutment with concrete at Kirkersville dam. Tore out old cribbing and refilled the new concrete work with gravel. Rip Rap laid up with cement and gravel for a protection wall. Lockville Dam was repaired with earth, stone and gravel. Millport Dam was repaired about 60 ft. in length on top with new timber, brush, stone and gravel, and stripped the entire dam.

The Tomlinson Dam was not repaired on account too much water, but stone and timber is bought and on the ground which will be in next annual report. Banks raised and repaired.

Refilled a break in bank at Cochrains culvert on 9 Mile level 35 ft. long, 12 ft. deep. North of Carroll on 6 Mile level where the Flumes were washed out by high water. A fill was made 65 ft. long, 40 ft. base, and 18 ft. deep and the banks along the same level were dug out and raised in several places. The 4 Mile level at Canal Winchester was repaired by raising it in several places. Two Mile level south of Canal Winchester locks: There were several bad leaks dug out and refilled. On 6 Mile level south of Groveport the banks were repaired at different places. The levees at Lockbourne that were washed away by high water was replaced. One levee was 65 ft. long and 8 ft. deep, another was 45 ft. in length and 8 ft. deep and the other about 300 ft. long and 2 ft. deep, and on short level a fill of 100 ft. was made on the Towpath side.

Put in fills on 2 Mile level below Circleville on Berme and Towing path 600 ft. long. Restored bank at 2 Mile locks 180 ft. long. Put in break at Westfall Wasteway with brush, stone and earth 80 ft. long and 18 ft. deep. Put in break below Yellow Bud 100 ft. long, 15 ft. deep and repaired break on Circleville level. The bank above Omega was dug out to stop leak and bank raised.

BARS.

Removed three bars on Circleville level. Took out bar below 2 Mile lock, 250 ft. long, 4 ft. deep, full width of canal. Moved all the bars from 2

Mile lock to the 18 Mile lock at Marfield's Mill. The school house bar 800 ft. long. Overly Bar 200 ft. long and several other bars were taken out which would aggregate 500 ft. in length. Took out 2 bars above 3 Locks, and 3 below locks. Took out 6 bars between Stoney Creek and Waverly and 2 bars on 2 Mile level below Waverly, 5 on the Jasper level, making a total length of 700 ft.

BRIDGES.

Built new towing bridges at Yellow Bud Aqueduct complete and one new towing bridge at Deer Creek Aqueduct. Put in new bridge at Circleville Dam across feeder. Also one new towing bridge across Stony Creek.

BRUSH AND WEEDS CUT.

Mowed banks of Canal both two miles and Berme bank in City of Newark, North Fork Aqueduct west to Lockport a distance of one mile. Lockport and Fair Grounds level, Tow and Berme bank a distance of two miles. From Fair Ground to Taylor's Lock, the Tow and Berme banks were moved a distance of two miles. On the 9 Mile level from Taylors Lock to Hebron the towing path was moved a distance of five miles. On 6 Mile level north of Carroll the banks were moved and cleaned of brush and weeds. The same was done at Canal Winchester and Groveport making a total distance of nine miles. Cut the brush and weeds on the Circleville level, also cut brush and weeds from Yellow Bud to 18 Mile Lock, a distance of twelve miles. The brush and weeds were cut through Chillicothe and Waverly, also from 2 Mile above Omega and from Omega to P. P. Lock, a distance of 9 miles.

GRASS CUT FROM CHANNEL OF CANAL.

Cut grass in City of Newark four times a distance of one mile, which is equal to 4 miles. Fair Ground Level was cut once, one mile. Nine Mile Level from Taylor's Lock to Hebron, 5 miles. Nine Mile Level from Taylor's Lock to Franklin Bridge, 4 miles. Nine Mile Level from Taylor's Bridge to Franklin Bridge, $1\frac{1}{2}$ miles. Nine Mile Level from Crouse Bridge to Taylor's Bridge, $1\frac{1}{2}$ miles. Nine Mile Level from Edwards Bridge to Franklin Bridge, 1 mile. Total, 18 miles.

This 18 miles of grass was taken out of Canal with forks and hook. On 6 Mile Level north of Carroll and 2 Mile Level south of Canal Winchester and south of Groveport 6 miles of channel grass was cut and taken out.

WASTE AND FEED GATES.

The waste gates at Buckeye Lake were recaulked. South of Carroll on 2 Mile Level the waste gates were repaired with new lumber. The Circleville and Tomlinson Dam Feeder gates were put in new complete. Below Waverly on 2 Mile Level the waste gates were repaired with new lumber, earth dug out and refilled under sill and puddled.

FEEDERS.

The Circleville and Tomlinson Dam feeders received new bulkheads complete. The brace timbers were let in stone walls and cemented. The walls were repaired with brick and cement mortar. The Millport Feeder was cleaned of all debris, as we cleared the other feeders also.

MISCELLANEOUS.

The repairs on Buckeye Lake are as follows by hauling or boating and relaying stone on north bank. Putting in new channel, stakes and buoys and

20 piling. Moved north bank and cut brush from Park to Sellers Point. Graded and graveled a portion of bank between Park to waste gates. Then on south side of Lake a public landing was built new complete with 26 piling driven from 6 to 25 ft. long. The pier or landing was 108 ft. long braced with 2 in. oak plank. Floored with 2 in. oak 8 ft. long. The Flumes at north lock were widened to 60 ft. The stone wall was reset and earth was used to fill in low places of bank and behind walls of North Lock and puddled. Rip Rap wall was placed from flume toward North Lock. A new foot bridge was placed over North Lock 18 ft. long and 5 ft. wide. A fill was made at Lockbourne on or near Geo. Foard's farm for protection. Also a fill was made across-Columbus feeder for protection of farmers at or near Moreheads place.

Putting in concrete tumble way complete below Circleville at Lower Lock on 2 Mile Level. Calking Circleville Aqueduct, cleaning out for paddles and resetting paddles and overhauling paddle stems in locks on 2 Mile Level. Also calking the Yellow Bud and Deer Creek Aqueduct by hauling or boating gravel and cinder. The Stony Creek, Paint Creek and Waverly Aqueducts were calked with gravel. The paddles of locks were cleared from Chillicothe to Waverly. The Guard Lock at Higby's was cleared of all silt and debris. Dug out wings of aqueducts at Omega, Waverly, P. P. and Sunfish Aqueducts, and refilled with earth, stone and gravel. There were leaks in banks, dug out, refilled and puddled at Higby's, Omega, Corwins, Deacons and Ghost Orchard Basin. Cleaned out channel from 3 locks to above Chillicothe. Boating stone and gravel for Stony Creek Aqueducts, also Wheeling stone off of bar in the river for the same. Hauling timber for Stony Creek and Waverly Aqueducts. Calking State Boat No. 2, taking drift and trees out of Canal and putting hog chain on hanger on Omega Aqueduct. Putting in head gate at Dry Dock at Waverly. Since last Annual Report the State has suffered a loss of one repair boat. One dredge and boarding boat for same during the fire at Waverly when The Summitt Mills burned. The iron that was left was removed to a place of safety. This miscellaneous part of report includes looking after Canal in times of heavy rains drawing water to prevent over-flow of banks and putting in 7 catch basins from 3 locks to Fosters below Higbys. On 6 Mile Level there were 8 fills made, caused by muskrat holes, to protect the lands of farmers.

REPAIRS NEEDED.

I do hereby further report to you that the following repairs are needed upon said Sub-Division No. 3 and 4, Grand Division No. 2.

ON AQUEDUCTS.

All the aqueducts on Sub-Division No. 3 and 4 are needing repairs except those that have been rebuilt the last four years, and as white oak timber is almost impossible to get in desired lengths at a reasonable price, I recommend that steel structures be put in place of white oak timbers. The durability of a steel aqueduct will more than pay for the extra cost you would pay between the steel and white oak timber. New aqueducts are needed at Vickers one mile west of Frazeysburg and over North Fork of Licking. The aqueduct over Racoon Creek needs extensive repairs in the way of top cords, truss braces, bottom cords, the entire structure is in a bad condition. The aqueducts over the South Fork of Licking Creek and the aqueduct north of Carroll on 6 Mile Level are needing extensive repairing. Since the last Annual Report the middle span of Paint Creek Aqueduct has gone out, and the contract is let for a steel span to be placed by the first of the year. Camp Creek, Bear Creek and the Sunfish Aqueducts need to be rebuilt. The aqueducts across Brush Creek at Rushtown is in a splendid condition but is needing new floors and siding.

LOCKS.

All the locks from Newark to Buckeye Lake need repairing in the way of reflooring, new mitre sills and new tumble ways. From Buckeye Lake to Lockbourne there are 27 lift locks and three guard locks which all their walls need repairing with brick, stone or concrete, new mitres and reflooring. The locks on Columbus feeder. The lift and guard locks at Millport need repairing with new flooring, mitres and walls repaired with concrete, brick or stone with cement mortar, all the locks on this Sub-Division No. 4 need repairs as above stated from Chillicothe to the Elbow Lock, the third lock this side of the entrance lock into the Ohio River.

LOCK GATES.

The following locks need new gates: Vickers, Nashport, Newark, Taylors, North and South Locks at Buckeye Lake, Baltimore, Carroll, Lockville, Guard and 4 Mile Locks on Columbus feeder, Millport, Circleville and all the locks from Chillicothe to the outlet locks into the Ohio River.

CULVERTS.

As the drainage of the lands along the Canal lands is increasing nearly all of the culverts need enlarging and extensive repairing.

DAMS.

The following dams need rebuilding, to-wit: Blackhand, the head gate at North Fork feeder, at Basil and Paw Paw Creek, at Baltimore. The Circleville and Tomlinson needs new sheeting on both aprons and the cribs filled with stone and gravel.

BANKS RAISED.

The banks from Dresden to Newark and from Newark to Lockbourne need to be strengthened and raised in several places. The banks on Columbus feeder needs to be restored in many places, from Lockbourne throughout the Sub-Division No. 4 the banks need raising which could be done by dredging.

BARS REMOVED.

There are some heavy bars throughout Sub-division 3 and 4 to be removed and where the canal is dry this work could be done with scraper at a normal cost, and where the water is in the channel I recommend the work to be executed by dredging.

BRIDGES.

Towing bridge at Licking Lock, Lockville, and north of Carroll are needed. A new towing bridge at Paint Creek the length of span that went out is needed and remainder of bridge needs repairing, and if the aqueducts throughout Sub-division No. 4 are restored new tow bridges will be needed.

BRUSH AND WEEDS CUT.

Brush and weeds should be cut and burned throughout Sub-division 3 and 4 each year.

GRASS CUT IN CHANNEL.

The channels are in good condition from Newark to Buckeye Lake as the channel grass was cut and taken out as late as the first of September, but from Buckeye Lake to Groveport there is 15 miles of channel grass needs cutting. From Omega to Waverly the channel grass needs cutting.

DREDGE AND DREDGING.

Before asking for the needed dredging on Sub-divisions 3 and 4 we need an improved dredge which could be used very profitably. The Canal needs dredging out in many places from Dresden to the Ohio River. Then a dredge would be of great service in dredging channels on Buckeye Lake.

WASTE AND FEED GATES.

Waste gates are needed at Nashport, Newark, Basil and Paw Paw feeders. Also waste gates are needed above Park at Chillicothe and below Waverly on short level.

FEEDERS.

The feeders at Baltimore could be restored at a small cost. The North Fork feeder needs to be opened at head gates and dredged to Newark. The Columbus feeder needs restoring by dredging. The Circleville and Tomlinson Dam feeders are in excellent condition as they have been just repaired in the last year.

MISCELLANEOUS.

There are several places throughout Sub-divisions 3 and 4, Grand Division No. 2 needing catch basins where drainage is let into Canal channel. As the stumps on Buckeye Lake are hindering the navigation, and there has been spent already a considerable amount of money to rid the lake of stumps, I recommend a sub-marine saw where the stumps could be sawed off close to bottom of Lake and taken out with less expense than a mere attempt and not anything accomplished. As Buckeye Lake is becoming every year more and more a pleasure resort it is necessary that the question of ridding the Lake of stumps or whatever hinders navigation have a serious consideration.

The Lock House at Circleville, 3 Locks and Higby's are needing repairs in the way of foundations, reroofing and new windows. All of the repair boats are needing extensive repairing, also the tool houses are needing new roofs.

In conclusion I earnestly extend my heartfelt thanks for the kindness and courtesy you have shown me when receiving instructions and advisement from you in the discharge of my duties.

Respectfully submitted,

HARRY R. MORRIS,
Superintendent of Repairs.

FINANCIAL STATEMENT DURING THE FISCAL YEAR ENDING NOV. 15, 1906.

Canal Repairs. Paid Through Regular Appropriation.

1905.		
Dec. 12.	Abstract	\$707 76
1906.		
Jan. 9.	Abstract	1,152 49
Feb. 13.	Abstract	896 73
Mar. 13.	Abstract	831 23
April 10.	Abstract	883 01
May 8.	Abstract	2,636 08
June 12.	Abstract	4,047 23
July 10.	Abstract	3,799 72
Aug. 14.	Abstract	2,550 75
Sept. 14.	Abstract	2,187 40

Oct. 9. Abstract	1,072 51
Nov. 13. Abstract	985 11
Total	<u>\$21,750 02</u>

Deficiency. Building Embankment at Lockbourne.

1905.		
Dec. 12. Abstract	\$878 71	
1906.		
Feb. 13. Abstract	21 29	
Total	<u>\$900 00</u>	

Buckeye Lake.

1906.		
Feb. 13. Amount of Abstract.....	\$37 75	
Mar. 13. Amount of Abstract.....	60 93	
May 8. Amount of Abstract.....	51 75	
June 12. Amount of Abstract.....	355 26	
Sept. 13. Amount of Abstract.....	239 26	
Nov. 13. Amount of Abstract.....	418 74	
Total	<u>\$1,163 69</u>	

Amount Paid Through Regular Appropriation.....	\$21,750 02
Amount Paid Through Deficiency.....	900 00
Amount Paid Buckeye Lake.....	1,163 69
Grand Total	<u>\$23,813 71</u>

OFFICE OF SUPERINTENDENT OF REPAIRS.

CINCINNATI, OHIO, December 17, 1906.

HON. CHAS. E. PERKINS, *State Engineer, Columbus, Ohio.*

DEAR SIR:—I herewith submit to you my Annual Report of Repairs made on Sub-Division No. 1, Grand Division No. 3, Miami and Erie Canal, during the fiscal year ending November 15, 1906.

CHAS. COOPER,
Superintendent of Repairs, Reading, Ohio.

This Subdivision extends from Cincinnati to the lower lock at Carrollton, a distance of fifty-seven miles.

FOREMEN.

R. V. Denny, foreman of carpenters, Middletown, Ohio, length of service forty-five years.

Fred Blerseh, foreman of State repair boat No. 1, Cincinnati, Ohio, length of service, four years.

Henry F. Eyler, foreman of State repair boat No. 2, Cincinnati, Ohio, length of service, nine years.

William Sheedy, foreman of Dredge No. 6, Franklin, Ohio, length of service, twenty-four years.

PROPERTY.

There are on this subdivision two State Repair boats, one steam dredge and boarding boat that accompanies dredge, four mules and numerous tools and appliances, in accordance with semi-annual report made.

LOCKS.

Built new upper and lower gates for Middletown lock, refloored and concreted in between timbers of same lock, also built mitre sills for same lock, built dams at upper and lower end of Middletown Lock and pumped water out, after new lock was built dams were removed. The mud and debris was removed from the front of the upper jaws and lower gates of the four locks at Lockland four times. Crescentville, Hamilton, Excello, Dines and Miamisburg. Locks were cleaned once the past season.

CANAL BANKS.

The low banks on the twelve mile level and on the six and eight mile levels below Hamilton and on the level between Miamisburg and Sunfish lock were raised, also the canal banks where the break occurred at Ross Lake and on six mile level above Lockland where the break occurred were strengthened.

CULVERTS.

The culvert at Hickenlooper farm was repaired and cleaned. The culvert above Sunfish aqueduct and the abutments were repaired and pointed up with Portland Cement. The culvert above Port Union was cleaned free of debris.

WASTE WEIR AND TUMBLES.

The waste weir at Dwyers, the waste weir at Port Union and the waste weir above Rockdale were each repaired, built one hundred feet new waste way below Crescentville, built seventy feet new waste way below Rialto.

WASTE GATES.

New waste gates and new floor and frame-work were built at West Carrollton, repaired waste gates at Crescentville, Dwyers, Cincinnati and opposite Spring Grove Cemetery.

TOWING BOATS.

New floor was built across Mitchel Ave. aqueduct, towing bridge at State's house was repaired, towing bridge at Crescentville was repaired.

FOOT BRIDGE.

New foot bridges were built at the following places, to-wit:— Across the lower lock at Lockland and upper Hamilton lock, and Tangeman's Crescentville and Excello were repaired.

DAMS.

The abutment at the right bank of the Miami River of the State dam was repaired. The upper shething of that dam was repaired. There was dredged from the canal on this subdivision during the past season approximately 18,000 cubic yards of earthly sediment.

WEEDS AND BRUSH CUT.

The weeds and brush were cut from the banks of the canal between Cincinnati and Sunfish lock twice during the past season.

FEED GATES.

The feed gates at Dines received repairs during the past season.

DREDGES AND REPAIR BOATS.

There was numerous repairs made on Dredges No. 4 and 6. The State boarding boat that accompanies the dredge has received needed repairs and State repair boats No. 1 and 2 have received needed repairs. State repair boat No. 2 is in such a condition that it should be replaced by a new boat.

AQUEDUCTS.

Repaired Crescentville Aqueduct, repaired Miamisburg Aqueduct, pointed up abutment walls with Portland cement and laid a twelve inch concrete floor under the aqueduct to protect abutment walls, repaired Amanda Aqueduct with new floor and twenty-four twelve-inch "I" beams also repaired sides of same.

SLUICE GATES.

Repaired sluice gates above Rockdale and on Greenland level.

BREAKS REPAIRED.

Repaired break at Hickenlooper farm above Lockland, repaired break at Middletown sewer, two small breaks at Cumminsville were repaired, three breaks on eight mile level below Hamilton were repaired.

BARS.

The bars on six and twelve mile levels were removed with Dredge No. 6.

CATCH BASINS.

Repaired catch basins on twelve mile, Franklin and Greenland levels.

MISCELLANEOUS MATTERS.

Repairs were made on Canal Collector's office at Cincinnati, and Canal Collector's office at Middletown. Debris was removed from the canal at Cheap-side in Cincinnati between Court Street and Broadway taking three hundred and eighty wagon loads of rubbish from canal. Stone was placed around the tubs of Carthage Aqueduct. Gravel and cinders were hauled to repair towing path on twelve mile level, leaks were repaired at Mitchel Avenue Aqueduct and at Kloper's Bend, Queen City Avenue and Niger Hill on twelve mile level, repaired seven leaks on six and eight mile levels. New snubbing posts were placed in position where needed on this subdivision, repaired leak at south abutment at Carthage Aqueduct, removed debris from under Carthage Aqueduct, removed trees from twelve, six, eight and two mile levels.

The basin opposite flour mill at Lockland was cleansed free of mud. Built flume at Lesourdsville to carry water into Cincinnati while building new aqueduct. Cut down trees on berme bank of canal between Hamilton and Excello, built dams at north and south ends of Lesourdsville Aqueduct, removed old aqueducts from canal at Lesourdsville and Crane's Run. Built new rack at elevator mill in Cincinnati, cleansed banks of debris from Cincinnati to Lockland seven times during the past season.

REPAIRS NEEDED.

The Rockdale and Lower Hamilton locks need to be rebuilt.

Rialto, Excello, Flour Mill lock at Lockland, Collector's lock at Lockland need repairs. The jaws of Tangemans lock at Lockland should be rebuilt.

LOCK GATES.

New upper and lower gates are needed at Amanda, new floor is needed for same lock, several locks need new balance beams.

CULVERTS.

The culvert at Holwager's should be enlarged. Bloody Run culvert needs repairs.

AQUEDUCTS.

Miamisburg, Crescentville and Port Union aqueducts need repairs.

WASTE GATES.

New waste gates including entire new woodwork should be rebuilt near the flouring mill at Lockland; new waste gates are needed on the Greenland level above the State dam, and at Rockdale on the four mile level new waste gates are needed at the elbow and at Court Street and back of the Morgue in Cincinnati. New feeder gates including entire new woodwork should be rebuilt at Dines lock. The waste gates at Dwyers needs repairs.

DAMS.

There should be a new dam built at State Dam above Middletown, as the old dam is in a worthless condition.

ANNUAL REPORT

DREDGING.

The canal from Miamisburg to Middletown should be dredged and from Lockland to Cincinnati should be dredged.

TOWING BRIDGES.

New towing bridges should be built at Miamisburg, Lesourdsville, Middletown, Dines and Crane's Run.

CANAL BANKS.

Need raising from Miamisburg to Cincinnati in places.

WASTE WAYS.

Waste ways need repairing on six mile level above Lockland and on six mile level above Hamilton and at Sheeds above Franklin.

FOOT BRIDGES.

A number of foot bridges are needed along the Division.

TUMBLES.

The tumble south of Lower Mill at Lockland and the falls at State house needs repairs.

OFFICE OF SUPERINTENDENT OF REPAIRS.

DAYTON, OHIO, December 8, 1906.

HON. CHAS. E. PERKINS, *Chief Engineer of Ohio Public Works, Columbus, Ohio.*

DEAR SIR:—The following is my annual report on the repairs made on Second Subdivision of the Miami and Erie Canal during the past year, ending Nov. 15, 1906, and also repairs needed for the ensuing year.

The subdivision extends from West Carrollton to New Bremen, a distance of 78 miles and also includes the Lewiston and Loramie reservoirs, and the Sidney and Loramie feeders.

FOREMEN.

Lincoln Evans, foreman repair boat No. 1, at Dayton, 5 years' service and 9 years as boatman. Edward McConnell, foreman of repair boat No. 2 at Piqua, 31 years' service.

There is on this subdivision two repair boats and one dredge.

REPAIRS MADE.

Aqueducts.

Two spans of the Lockington Aqueduct were repaired with part new posts, and part new siding, and rods tightened. The 35 foot span of the Troy Aqueduct was repaired with several new posts and one side re-planked and two new wing walls.

The stone pier next to the north abutment of the Miami Aqueduct was found to be in bad condition, and it was repaired by building a concrete wall (2½ ft. thick at base and 1 foot thick at top and sixteen feet high), all around it. This makes the pier stronger than when it was first built.

LOCKS.

Locks 1, 4, 6, 11, 24 had the walls partly aligned and part pointed with cement mortar. All locks were cleaned out.

LOCK GATES.

One pair of new gates were put in Lock 8. Gates 2, 3, 7, 9, 10, 22, and 23 were repaired. Some by being spliced, some new balance beams and some by replanking.

CULVERTS.

Slight repairs were made on the Oak's Creek culvert. All other culverts were cleaned out of all debris.

DAMS.

The brush and stone dam at Troy feeder was repaired with stone and gravel.

BANKS RAISED.

The bank of the level above Piqua was raised two feet for a distance of 400 feet. The level below Piqua was raised two feet for a distance of 800 feet.

The bank on the level below Dayton was raised and strengthened in several places where breaks had occurred the year before.

BARS REMOVED.

Bars were moved at the Bluffs near Dayton and wheeled on the bank to strengthen it.

BRIDGES.

New bridges were built at Locks 1, 3 and 10. A new towing bridge was put in at Oaks Creek.

WEEDS AND BRUSH.

Weeds and brush were cut from Dayton to Carrollton, and from Troy to New Bremen, and from Lockington to Port Jefferson, the Sidney feeder.

DREDGING.

Dredge No. 4 worked one month on the level below Dayton. The dredge has been on the first subdivision since May, 1906.

WASTE AND FEED GATES.

Some repairs were made on the waste gates on the summit level. New frame and gates were put in at Oak's Creek.

WASTE WEIRS.

The stone weirs on the levels above and below Piqua were repaired with stone and gravel.

RESERVOIR BANKS.

In February, 1906, a severe wind and rain storm endangered the safety of the Lewiston reservoir bank west of Lakeview and left it in a dangerous condition, and the storm weakened the bank at other points. Since that time for the protection of the bank, there has been driven in front of the bank 240 piling 16 feet long, over 50,000 cubic feet of logs has been gathered from the drifts in the reservoir and placed between the piling and the bank, and three thousand cubic yards of earth has been hauled on the lowest parts of the bank.

All at a cost of \$4,650.00.

SLUSHING THE CANAL.

In the level below Piqua the weeds and flags had grown far out on the sides of the banks, thereby holding the sediment and decreasing the width of the canal to such an extent that it became impossible to pass the amount of water needed for the Mills below. Canal scrapers were put in on the level below Piqua and the sediment was scoured out through the lock at Stillhouse and in the same way it was carried through the two mile level to Allen's Mill, $\frac{1}{2}$ mile below that, it was passed through the aqueduct and from that point $2\frac{1}{2}$ miles to Troy, was treated the same way. The water and sediment being passed through a flume just above the lock at Troy. The result is that there is a good canal between Troy and Piqua, a distance of 8 miles. The canal is full width, and in no place is there less than four feet of water and nearly all is five feet.

The conditions at Dayton were so bad, especially in the basins at the Public landing, which is wide, and a dead end, as it is back water from the mills at that point, the basins were so filled up that it was impossible to pass a boat with half a load. This, by order of the Board was slushed out through the waste gates, just below Dayton. Later the same conditions were carried out as far as Carrollton, (with the exception of about 2,000 feet near National Cash Register), where a lot of sand and gravel was washed in. There is a good canal between Dayton and Carrollton.

I am pleased to report that there has been no break in the canal banks the last year, except at Oak's Creek, which was caused by the canal being filled up on account of the Miami aqueduct being out of repair.

The improvement from Dayton to Carrollton was charged to the permanent improvement fund in charge of Engineer James C. Wonders.

REPAIRS NEEDED ON THE SECOND SUBDIVISION OF THE M. & E. CANAL FOR THE ENSUING YEAR.

AQUEDUCTS.

The five spans of Lockington aqueduct need to be overhauled and tightened up and one pier needs to be rebuilt.

The Plum Creek aqueduct, 40 foot span requires a new structure, as the present one is in very bad condition and if it should collapse, it would cut off the water from all interest on the canal at Piqua and the north.

LOCKS.

Locks 3, 5, 6, 7, 17, and 19 needs to be unwatered and part new floors put in and mitres repaired and planked and part of the walls set back and aligned.

LOCK GATES.

9 pair of new gates are needed on this subdivision.

CULVERTS.

A 12 foot stone culvert 2 miles north of Lockington is in dangerous condition, and needs to be treated as the Holt's Creek Culvert with a concrete wall on the outside of the stone arch.

The 14 foot culvert 6 miles north of Lockington needs to be treated in the same way.

BANKS SHOULD BE RAISED.

The banks need to be raised in many places, especially east of Sidney on the feeder. This can be best done by the dredge.

DAMS.

The Piqua dam will need to be partly rebuilt. The Port Jefferson dam needs a new floor, and the brush and stone dam at the Troy feeder needs to be repaired.

DREDGING.

This subdivision needs dredging its entire length, a large amount of this could be done by a system of sluice gates, where the material is not needed for raising the banks.

The conditions for sluicing out the canal on this subdivision are very favorable on account of so much of the canal running close to and parallel with the river.

In July, 1903, the Miami aqueduct collapsed, causing the water to be out of the canal north of Dayton, a distance of ten miles. Since then, many bars and much sediment has been washed in and at present, there could not be passed on an average more than two feet deep of water in that distance

WASTE GATES.

New gates and a complete new structure is needed on the summit level.

In last March, the timber structure and gates of the Loramie's feeder

collapsed. This has not been rebuilt. No water can be turned into the canal from the Loramie reservoir until this is rebuilt.

FEED GATES.

The feed gates at the Loramie reservoir needs to be repaired.

At Port Jefferson there are temporary frame and gates put in as it was impossible to use the old structure. The walls of which are of stone and has been undermined. This should be repaired, as a large amount of damage would result by the breaking of the temporary structure, thereby letting the river into the canal.

WASTE WEIRS.

The waste weir at the Loramie reservoir collapsed in April, 1903.

This weir is one hundred and seventy feet in length with two drops. First drop seven feet, second drop six and one half feet. A temporary dam has been put in where the water approaches the weir whereby the water is held in the reservoir at nearly its normal height.

Waste weir of timber and summit level 70 feet long, 3 drops, feet, 7 feet and 5 feet need to be rebuilt. Several weirs need slight repairs. The seventy-five feet weir, seven feet drop at Tippecanoe will have to be entirely new. A new weir is needed below Dayton at Shroyer's Run.

FEEDERS.

Many bars and a large amount of sediment washed into the Sidney feeder, which makes it very difficult to pass the water needed for navigation, and if those obstructions are not removed soon, it will be impossible to pass the amount of water needed for the main canal at Lockington. The bank a distance of three miles north of Sidney is dangerously low.

RESERVOIRS.

For the protection of the Lewiston Reservoir Bank, it will require 650 piling, 16 feet long, and 3,200 pieces of lumber $2\frac{1}{2} \times 4$ feet, and will need 4,000 cubic yards of earth, and large amount of drift logs to place between the piling and the bank. The logs can be found in the reservoir.

LORAMIE'S RESERVOIR BANK.

To protect Loramie's reservoir bank will need 150 pieces of piling, 16 ft. long, 560 pieces of lumber, $2\frac{1}{2} \times 6$ feet, 14 feet long. 2,300 cubic yards of earth will cost about \$1,571.00.

I respectfully refer you to Secretary's report for financial statement.

Very respectfully submitted.

JOHN O'CONNOR,
Superintendent.

OFFICE OF SUPERINTENDENT OF REPAIRS.

TOLEDO, OHIO.

HON. CHAS. E. PERKINS *Chief Engineer, Public Works of Ohio.*

I have the honor to submit herewith my annual report of repairs made on Sub-division No. 3, Grand Division No. 3, Miami and Erie Canal, during the year ending November 15, 1906.

This sub-division extends from New Bremen to Toledo, a distance of 121 miles and includes the St. Marys feeder and Grand Reservoir.

There are on this sub-division, three repair boats, two scows, one steam dredge (not serviceable), one horse and two mules, besides tools and appliances, all being the property of the State of Ohio.

FOREMEN.

The following is a list of foremen regularly employed on this sub-division, also their post office address and number of years employed.

S. E. Allmon, Toledo, Ohio; 12 years.

J. R. Spencer, Delphos, Ohio; 21 years.

Frank Bennett, St. Marys, Ohio; 6 years.

AQUEDUCTS.

The abutments of the St. Marys Aqueduct received slight repairs.

The Auglaize River Aqueduct received needed repairs.

LOCKS.

Locks Nos. 12, 20, 32, 35, 45, 46, 47, 48, 49, 50, 51 and 52 each received temporary repairs.

Lock No. 38 received a new deck and head.

Lock No. 39 being a river lock, the water was removed and the lower story anchored to the mud sills.

LOCK GATES.

The gates at Locks Nos. 17, 18, 31 and 33 received needed repairs.

Locks Nos. 15, 30, 47, 48, 49, 51 and 52 each received two new gates.

Lock No. 24 received four new gates.

CULVERTS.

Culverts Nos. 7, 11, 14, 15, 16, 17, 27, 29 and 32 received needed repairs, also three culverts under the towing path along the slack water were each repaired.

DAMS.

One hundred and ten cubic yards of rip-rap stone was placed between the old and new dams at Providence.

BANKS.

The towing path embankment for short distances below Lock No. 1, along the 5, 9, 18 mile levels, St. Marys feeder and hydraulic was raised and repaired.

A new berm bank was constructed between the canal and Hookers pond, at South Defiance.

BRIDGES.

The towing bridge crossing the waste way on the nine mile level, Jennings Creek, and Lock No. 46 were each repaired.

Two new bridges were placed at Lock No. 23.

BRUSH AND WEEDS CUT.

The brush and weeds were cut from the canal bank from Lock No. 14 to Toledo, and from the banks along the St. Marys feeder.

WASTE WEIRS.

The waste weirs at Locks Nos. 25, 26, 32, 33, 34 and 38 were each repaired. New waste weirs were placed at Locks Nos. 18 and 21.

FEEDERS.

Piling protection was placed in front of the feeder at the Grand Reservoir. The debris was removed from the Providence feeder.

MISCELLANEOUS REPAIRS.

Repair boats Nos. 1, 2 and 3 were each calked and painted.

The upper stories of locks Nos. 14, 36 and 37 were removed.

Sheet piling dams were placed in the canal and the banks cut on the five and nine mile levels in order to prevent the storm water from interfering with the contractors at lock No. 14 and Six Mile Aqueduct.

REPAIRS NEEDED.

AQUEDUCTS.

A new aqueduct is needed crossing little Jennings Creek, which should be made an arch culvert.

New abutments are needed at St. Marys aqueduct.

New super-structure is needed at Flat Rock Aqueduct and the abutments should be repaired.

Concrete aprons should be placed at Blue Creek, Flat Rock and St. Marys Aqueducts.

LOCKS.

New locks are needed at Nos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 38 and 39, as these locks are constructed of wood, the lower stories are in a very bad condition owing to erosion.

Locks Nos. 41, 42, 43, 45, 46, 47, 48, 49, 50, 51 and 52 being stone locks, should be rebuilt from the water line of the lower levels, as the lime stone which has been exposed to frost, has so deteriorated that the walls are about to fall.

Locks Nos. 8, 24, 30, 40 and 44 need slight repairs.

The feed lock at the Grand Reservoir needs extensive repairs.

CULVERTS.

Owing to the improved condition of the drainage between New Bremen and Defiance, the culverts which were placed under the canal during its original construction (the majority of which are of wood) are at present entirely inadequate to pass the water during the wet seasons of the year, thus the private property adjacent to the canal is damaged.

There are on this sub-division of the canal thirty-three culverts which should be rebuilt and fifteen stone culverts which should be repaired.

DAMS.

A new dam is needed at Providence.

The abutments at Independence dam should be repaired, protection walls placed on either side and the embankments strengthened.

BANKS RAISED.

The canal banks should be raised and strengthened the entire length of this sub-division. The water level has been lowered from time to time in order to prevent flooding the banks until the standard level is, at the present time, from 12 to 14 inches below its original height.

BARS REMOVED.

The bars between Independence and Florida, below Providence and Bucklin Lock should be removed.

BRIDGES.

New bridges are needed crossing the St. Marys feeder, Flat Rock Creek and at Boyds change bridge.

BRUSH AND WEEDS CUT.

The brush and weeds should be cut from the canal embankments each year.

DREDGING.

The canal should be dredged to a depth of from 12 to 18 inches, from New Bremen to Defiance, Independence to Florida and through the City of Napoleon.

WASTE WEIRS.

New waste weirs are needed at locks Nos. 2, 3, 4, 5, 6, 7, 9, 10, 11, 32 and 33.

MISCELLANEOUS REPAIRS.

A new boat is needed to replace repair boat No. 1.

Repair boats Nos. 2 and 3 should be calked and painted each year.

In conclusion I wish to call your attention to the fact: that, owing to a lack of funds sufficient to make permanent improvements, the department has been obliged to make temporary repairs as best they could from year to year on this sub-division until the canal has reached such a state of delapidation that in order to preserve it, it must be practically rebuilt.

Very respectfully submitted,

H. W. MEACHAM,
Superintendent of Repairs.

Toledo, Ohio, November 15, 1906.

ABSTRACTS OF MONIES PAID
BY
SUPERINTENDENTS OF REPAIRS.

(99)

U of M

1950

ABSTRACT OF MONEYS PAID BY SUPERINTENDENTS OF REPAIRS.

ABSTRACT OF MONEY PAID.

By Charles Hatch, Superintendent Sub-Division No. 1, Grand Division No. 1,
Ohio and Erie Canal, for Material and Labor for the Maintenance and
Repair of the Public Works.

No. of Voucher.	To Whom.	For What Paid.	A.ount.
<i>December, 1905.</i>			
1	J. H. Morrison.....	Expense as collector.....	\$6 78
2	J. I. Johnston.....	Feeding state horse, etc.....	19 79
3	John Moore	Feeding state team, etc.....	23 10
4	J. M. Jones.....	Expenses as collector.....	3 00
5	Charles Savacool	Feeding state horse.....	10 60
6	C. W. Riley.....	General blacksmithing	6 15
7	H. A. Krisher.....	General blacksmithing	13 50
8	R. L. Mead.....	Repairing harness	4 10
9	William O. Myers.....	General horse-shoeing	1 40
10	Bowers & Conkle Lum. Co.	Lumber used on repairs.....	149 76
11	The Massillon Lumber Co.	Lumber used on repairs.....	132 42
12	Hemperly Hardware Co....	Hardware used on repairs.....	17 74
13	Hartel & Milar	Hardware used on repairs.....	31 52
14	The McNeil Boiler Co....	Repairs on steam dredge.....	199 93
15	G. A. Kempel & Co.....	Repairs on steam dredge.....	1 05
16	Taplin, Rice & Co.....	Repairs on steam dredge.....	26 38
17	G. Hanley	Coal for portable engine.....	7 00
18	Heiser, Van Camp & Carpenter	R. R. fare	9 90
19	D. Atwater & Son.....	Cement used on repairs.....	213 76
20	The Massillon Paper Co...	Straw used to cover sluice.....	1 86
21	East Ohio Gas Co.....	Gas used at offices.....	5 76
22	E. C. Taggart.....	Plumbing and supplies	8 15
23	The B. & O. R. R. Co....	Mileage book	30 00
24	The Massillon Water Supply Co.	Water used on dredge.....	36 65
25	H. G. Patton.....	Repairing buggy	42 65
26	Charles Hatch	Expenses as Supt.	61 15
27	F. W. Schaub.....	Messenger service	10 50
28	Citizens' Telephone Co....	Telephone service	10 00
29	Charles E. Perkins.....	Traveling expenses as chief engr.	12 50
	Pay roll of officers.....	Salaries	432 66
	Pay roll No. 1.....	Labor	154 50
	Pay roll No. 2.....	Labor	190 50
	Pay roll No. 3.....	Labor	700 96
	Dredge pay roll.....	Labor	97 13
	Total		\$2,672 85

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	and For What Paid.	Amount.
<i>January, 1906.</i>			
1	J. L. Johnston.....	Feeding state horse, etc.....	\$12 00
2	John Moore	Feeding state team, etc.....	23 33
3	Charles Savacool	Feeding state horse.....	10 00
4	Akron Plumbing & Heating Co.	Repairing pipes in barn.....	1 20
5	Brewster Coal Co.....	Coal furnished steam dredge....	14 63
6	The East Ohio Gas Co....	Gas furnished at offices.....	5 70
7	Robert & Son.....	Lumber used on repairs.....	2 08
8	A. Adamson	Bar and wrench for flood gates..	7 90
9	Peterson & Wright.....	Cement used on repairs.....	2 50
10	Bowers & Conkle Lumber Co.	Lumber used on new sluice.....	18 48
11	B. & O. R. R. Co.....	Mileage book	30 00
12	The Hemperly Hardware Co.	Hardware used on repairs.....	14 94
13	Akron People's Tel. Co....	Telephone service.....	21 65
14	H. A. Krisher.....	Repairs for flood gates at Massillon	5 85
15	David Atwater & Son.....	Cement and salt used at Massillon	23 10
16	E. Conners	Labor	20 00
17	Charles M. Knight.....	Chemical test of water.....	4 50
18	Charles Hatch	Expenses as supt.....	63 40
19	The Hankey Lumber Co....	Lumber used on repairs.....	19 30
20	Charles E. Perkins.....	Traveling expenses as chief engr..	13 70
21	F. W. Schaub.....	Messenger service	6 66
22	W. H. McClintock.....	Traveling expenses as Secretary..	5 00
23	William Kelley	Coal furnished	14 27
	Pay roll of officers.....	.....	432 66
	Pay roll No. 2.....	.....	115 50
	Pay roll No. 3.....	.....	399 89
	Dredge pay roll.....	.....	57 75
	Total .....	.....	\$1,345 99
<i>February, 1906.</i>			
1	Charles Hatch	Expenses as Supt.....	\$64 90
2	J. I. Johnston.....	Feeding state horse, etc.....	10 80
3	John Moore	Feeding state team, etc.....	21 40
4	Charles Savacool	Feeding state horse.....	12 49
5	Hardware Supply Co.....	Oakum used on repairs.....	50
6	Harter & Milar	Hardware used on repairs.....	14 73
7	H. Myers	General blacksmithing	7 70
8	Weil & Bisker.....	General blacksmithing	3 65
9	H. A. Fisher.....	Repairing pump	4 05
10	Ira Dreisbach	Stone used for building wall at Lock 1	23 25
11	Cuyahoga Telephone Co....	Telephone service	57 65
12	Akron People's Tel. Co....	Telephone service	1 40
13	Western Union Tel. Co....	Message charges	83
14	Rohrbacker & Allen.....	Nails used on dredge.....	79
15	E. J. McLaughlin.....	Repairing mucker	29 22

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
16	Peterson & Wright.....	Cement used on repairs.....	16 88
17	The Hankey Lumber Co....	Lumber used on repairs.....	5 00
18	Akron Tent & Awning Co.	Canvas cover	13 00
19	East Ohio Gas Co.....	Gas used at offices.....	6 68
20	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....		432 66
	Pay roll No. 2.....		68 75
	Pay roll No. 3.....		208 75
	Pay roll No. 4.....		88 50
	Dredge pay roll.....		18 20
	Total		\$1,126 78
		March, 1906.	
1	A. A. Likens.....	Labor performed	\$1,476 00
2	J. I. Johnston.....	Feeding state horse, etc.....	11 80
3	John Moore	Feeding state team, etc.....	34 50
4	Charles Savacool	Feeding state horse, etc.....	11 10
5	Harter & Milar.....	Hardware used on repairs.....	27 41
6	Myers Bros.....	Hardware used on repairs.....	15 74
7	The Hemperly Hardware Co.	Hardware used on repairs.....	1 53
8	The Hankey Lumber Co....	Lumber used on repairs.....	8 52
9	The Massillon Lumber Co..	Lumber used on repairs.....	2 95
10	Taplin, Rice & Co.....	Repairs for steam dredge.....	38 46
11	The McNeil Boiler Co....	Repairs for steam dredge.....	21 38
12	Brewster Coal Co.....	Coal for steam dredge.....	22 50
13	John Brunner	Repairs for steam dredge.....	16 80
14	G. A. Kempel & Co.....	Iron supplies for steam dredge..	6 15
15	Reid Bros.	Rubber boots	44 00
16	William O. Myers.....	Horse shoeing	5 80
17	Western Union Tel Co....	Message charges	75
18	East Ohio Gas Co.....	Gas used at offices.....	5 82
19	Charles Hatch	Expenses as Supt.....	71 50
20	Akron Plumbing & Heating Co.	Supplies	1 65
21	Akron People's Tel. Co....	Telephone service	10 40
22	Charles E. Perkins.....	Traveling expenses as chief engr.	12 00
23	Charles W. Diehl.....	Services	8 50
	Pay roll of officers.....		432 66
	Pay roll No. 2.....		232 12
	Pay roll No. 3.....		287 75
	Dredge pay roll.....		221 12
	Total for month.....		\$3,028 91
		April, 1906.	
1	Charles Savacool	Feeding state horse, etc.....	\$10 75
2	J. I. Johnston.....	Feeding state team, etc.....	11 80

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
3	John Moore	Feeding state team, etc.....	22 10
4	Miller Bros.	Boating gravel	25 00
5	Brad Voshell	Boating gravel	25 00
6	G. A. Kempel & Co.....	Iron for steam dredge.....	85
7	Taplin, Rice & Co.....	Repairs for steam dredge.....	4 09
8	Brewster Coal Co.....	Coal for steam dredge.....	24 39
9	R. L. Mead.....	Harness repairs	1 00
10	Thomas P. Howland.....	General horse shoeing.....	5 55
11	C. W. Riley.....	General horse shoeing.....	3 95
12	City Veterinary	Medicine for state horse.....	8 00
13	The Hankey Lumber Co...	Lumber used on repairs.....	6 70
14	Harter & Milar.....	Hardware used on repairs.....	41 66
15	East Ohio Gas Co.....	Gas used as offices.....	2 46
16	Charles Hatch	Expenses as Supt.	70 10
17	Akron People's Tel. Co....	Telephone services	8 00
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	432 66
	Pay roll No. 2.....	.....	266 37
	Pay roll No. 3.....	.....	442 55
	Dredge pay roll.....	.....	247 62
	Total for month.....	.....	\$1,675 60
May, 1906.			
1	Charles Savacool	Feeding state horse, etc.....	\$11 60
2	J. I. Johnston.....	Feeding state horse, etc.....	12 50
3	John Moore	Feeding state team, etc.....	22 30
4	The Hemperly Hardware Co.	Hardware used on repairs.....	14 19
5	Myers Bros.	Hardware used on repairs.....	9 11
6	D. C. Smith.....	Hardware used on repairs.....	1 50
7	Harter & Milar.....	Hardware used on repairs.....	32 92
8	The Massillon Lumber Co..	Lumber used on repairs.....	9 47
9	Taplin, Rice & Co.....	Repairs for steam dredge.....	5 71
10	G. A. Kemper & Co.....	Repairs for steam dredge.....	1 43
11	Brewster Coal Co.....	Coal for steam dredge.....	24 89
12	R. L. Mead.....	Harness repairs	4 20
13	C. W. Riley.....	Blacksmithing	3 05
14	Koons Bros.	Livery	2 04
15	W. G. Johnston.....	Services rendered	50 00
16	East Ohio Gas Co.....	Gas used at offices.....	60
17	Akron People's Tel. Co....	Telephone service	3 25
18	Charles Hatch	Expenses as Supt.	71 80
19	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	457 66
	Pay roll No. 2.....	.....	205 62
	Pay roll No. 3.....	.....	438 00
	Dredge pay roll.....	.....	258 50
	Total for month.....	.....	\$1,655 34

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>June, 1906.</i>			
1	J. H. Morrison.....	Expenses as Collector.....	\$7 93
2	J. I. Johnston.....	Feeding state horse, etc.....	11 00
3	John Moore.....	Feeding state team, etc.....	27 55
4	Myers Bros.	Hardware used on repairs.....	41 52
5	Harter & Milar.....	Hardware used on repairs.....	14 19
6	Summit Lumber Co.....	Lumber used on repairs.....	29 17
7	Summit Harness Co.....	Harness repairs.....	75
8	Weil & Bisker.....	General blacksmithing.....	6 75
9	H. Myers.....	General blacksmithing.....	8 50
10	William O. Myers.....	Horse shoeing.....	4 20
11	H. Simmons Coal Co.....	Coal furnished steam dredge.....	11 62
12	William Drury.....	Coal furnished steam dredge.....	18 90
13	D. A. Smith.....	Repairs on steam dredge.....	4 44
14	Andrew Oehl.....	Repairs on steam dredge.....	8 80
15	Taplin, Rice & Co.....	Repairs on steam dredge.....	3 80
16	McGee Bros.	Painting state boat No. 3.....	16 25
17	Donald B. Young.....	Inscription on state boat No. 3.....	6 00
18	Hiser Bros.....	Cutting grass on 10 mile level.....	63 00
19	Peterson & Wright.....	Cement.....	8 10
20	The Burch Directory Co.....	One directory.....	4 00
21	East Ohio Gas Co.....	Gas used as offices.....	34
22	Charles Hatch.....	Expenses as Supt.....	60 80
23	Charles Savacool.....	Feeding state horse.....	10 00
24	G. A. Kempel.....	Repairs for steam dredge.....	3 73
25	John Brunner.....	Repairs on scow and state boat.....	15 85
26	Bargerton Feed Store.....	Cement.....	1 80
27	Akron People's Tel. Co.....	Telephone service.....	12 05
28	Charles E. Perkins.....	Traveling expenses as chief engr.....	15 00
	Pay roll of officers.....		457 66
	Pay roll No. 2.....		174 37
	Pay roll No. 3.....		449 75
	Dredge pay roll.....		248 88
	Total for month.....		\$1,746 70
<i>July, 1906.</i>			
1	James Roach.....	Freight bills, etc.....	\$2 55
2	J. I. Johnston.....	Feeding state horse, etc.....	11 55
3	John Moore.....	Feeding state team, etc.....	22 40
4	Charles Savacool.....	Feeding state horse, etc.....	10 35
5	The Hemperly Hardware Co.....	Hardware used on repairs.....	7 28
6	Harter & Milar.....	Hardware used on repairs.....	37 00
7	William Donckley.....	Damaged property.....	10 00
8	Koons Bros.....	Paint, etc.....	3 08
9	H. A. Krisher.....	Blacksmithing.....	5 20
10	Thomas P. Howland.....	Blacksmithing.....	1 60
11	Taplin, Rice & Co.....	Repairs for steam dredge.....	38 80
12	The Russell & Co.....	Repairs on steam dredge.....	30 23
13	H. Simmons Coal Co.....	Coal for steam dredge.....	19 84
14	H. H. Pille.....	Rubber boots.....	19 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
15	W. J. McCourt.....	Cleaning closet	10 37
16	City Veterinary Hospital...	Medicine	1 75
17	Akron People's Tel. Co....	Telephone service	1 20
18	Akron Plumbing & Heating Co.	Supplies used at Lock 1.....	6 49
19	Akron Water Works Co....	Water rent at Lock 1.....	6 57
20	Charles Hatch	Expenses as Supt.	10 80
21	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
22	Lewis Young	For land purchased.....	400 00
	Pay roll of officers.....	Salaries	457 66
	Pay roll No. 2.....	Labor	233 50
	Pay roll No. 3.....	Labor	473 00
	Pay roll No. 4.....	Labor	228 00
	Total for month.....		\$2,123 22
<i>August, 1906.</i>			
1	J. H. Morrison.....	Expenses as collector.....	\$7 30
2	J. I. Johnston.....	Feeding state horse, etc.....	10 00
3	John Moore	Feeding state team, etc.....	22 75
4	Charles Savacool	Feeding state horse, etc.....	10 00
5	E. J. Williams.....	Flynet for state horse.....	3 00
6	Harter & Milar.....	Hardware used on repairs.....	35 14
7	Myers Bros.	Hardware used on repairs.....	30 40
8	The Fulton Pit Car Co....	Lumber used on repairs.....	10 00
9	The Russell & Co.....	Repairs on steam dredge.....	20 15
10	The Hess-Snyder Co.	Repairs and coal on steam dredge.	4 40
11	H. Myers	General blacksmithing	9 10
12	The Akron Plumbing and Heating Co.	Supplies at office at Lock 1.....	67
13	The Kraus-Keim Co.....	Supplies at office at Lock 1.....	5 75
14	Ashley, Ames & Son.....	Livery	2 00
15	Akron People's Tel. Co....	Telephone service	9 80
16	Hiser Bros.	Cutting grass	105 00
17	H. A. Fisher.....	Boat pump	5 32
18	Charles Hatch	Expenses as Supt.	69 80
19	C. W. Bruce & Co.....	Harness repairs	2 45
20	Recorder of Summit Co....	Transferring of Young's deed...	1 10
21	Akron Tent-Awning Co....	Repairs on cover.....	50
22	Irving C. Rankin.....	Treatment and medicine for Selem Woods	18 00
23	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
24	G. A. Patton.....	Painting name on state boat.....	10 00
	Pay roll of officers.....	Salaries	457 66
	Pay roll No. 2.....	Labor	142 23
	Pay roll No. 3.....	Labor	462 80
	Pay roll No. 4.....	Labor	252 82
	Total for month.....		\$1,723 14

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>September, 1906.</i>			
1	Charles Savacool	Feeding state horse, etc.....	\$10 40
2	J. I. Johnston.....	Feeding state horse, etc.....	11 20
3	John Moore	Feeding state team, etc.....	22 50
4	Wash Carpenter	R. R. fare, etc.....	17 00
5	The Hemperly Hardware Co.....	Repairs on steam dredge.....	6 76
6	The Hess-Snyder Co.....	Repairs on steam dredge.....	98 70
7	Myers Bros.	Repairs on steam dredge.....	6 96
8	E. L. Gilcher.....	Labor on steam dredge.....	2 00
9	The People's Coal Co.....	Coal for steam dredge.....	23 02
10	A. Adamson	Iron sledge	6 00
11	Harter & Milar.....	Hardware used on repairs.....	31 48
12	The Massillon Lumber Co.....	Lumber used on repairs.....	10 16
13	William O. Myers.....	General horse shoeing.....	4 35
14	R. L. Mead.....	Leather halter	1 25
15	The Russell & Co.....	Smoke stack	1 31
16	East Ohio Gas Co.....	Gas used at office Lock 1.....	32
17	Akron Plumbing & Heating Co.	Supplies used at office Lock 1....	15
18	The Kraus-Keim Co.....	Supplies used at office Lock 1....	11 13
19	J. McGee & Co.....	Cutting grass	73 50
20	J. A. Smith.....	Wall paper	98
21	Charles Hatch	Expenses as Supt.....	69 40
22	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	457 66
	Pay roll No. 2.....	.....	129 12
	Pay roll No. 3.....	.....	260 12
	Pay roll No. 4.....	.....	206 13
	Pay roll No. 5.....	.....	319 87
	Total for month.....	.....	\$1,796 47
<i>October, 1906.</i>			
1	Charles Savacool	Feeding state horse.....	\$10 25
2	J. J. Johnston.....	Feeding state horse.....	10 00
3	John Moore	Feeding state horse.....	22 00
4	Harry Simmons	Coal for steam dredge.....	32 77
5	The Russell & Co.....	Repairs for steam dredge.....	10 81
6	The Hemperly Hardware Co.....	Hardware for steam dredge.....	14 83
7	Harter & Milar.....	Hardware used on steam dredge..	33 37
8	U. G. Fredrick Lumber Co.....	Lumber used on general repairs..	1 92
9	The Hankey Lumber Co....	Lumber used on general repairs..	4 00
10	Ashley Ames & Son.....	Livery from Newburg to 5 mile lock	2 00
11	Weil & Bisker.....	General blacksmithing	7 60
12	H. Myers	General blacksmithing	6 35
13	E. Porter	General blacksmithing	3 30
14	W. C. Keenan.....	Deering mower	10 00
15	Wash Carpenter	1 set single harness.....	5 00
16	East Ohio Gas Co.....	Gas used at offices.....	1 52

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
17	Akron Plumbing & Heating Co.	Repairs on Lock 1.....	6 57
18	Akron People's Tel. Co....	Telephone service	22 25
19	D. Atwater & Son.....	Telephone service	3 85
20	Charles Hatch	Expenses as Supt.....	62 65
21	C. E. Perkins.....	Traveling expenses as chief engr.	15 00
22	J. M. Jones.....	For office expenses.....	5 95
	Officers pay roll.....		457 66
	Pay roll No. 2.....		296 99
	Pay roll No. 3.....		464 72
	Pay roll No. 4.....		272 25
	Total for month.....		\$1,783 61
<i>November, 1906.</i>			
1	J. H. Morrison.....	Expenses as collector.....	\$9 25
2	James Roach	Expenses as engr.....	3 60
3	John Moore	Feeding state team, etc.....	24 25
4	Charles Savacool	Feeding state team, etc.....	20 25
5	Smith & Reid.....	Rubber boots used on state boat..	27 50
6	H. H. Pille.....	Rubber boots used on state boat..	18 00
7	The Hemperly Hardware Co.	Supplies furnished steam dredge..	6 75
8	Harter & Milar.....	Hardware used on repairs.....	18 01
9	E. R. Gilcher.....	Repairs on boiler for steam dredge.	4 25
10	The McNeil Boiler Co....	Supplies for steam dredge.....	5 35
11	Harry Simmons	Coal for steam dredge.....	18 00
12	The People's Coal Co.....	Coal for steam dredge.....	13 55
13	R. L. Mead.....	Neck strap and harness repairs...	2 20
14	Hancock & Ritchie.....	Straw to fill beds on dredge cook boat	1 50
15	D. Atwater	Telephone service, etc.....	30 55
16	East Ohio Gas Co.....	Gas used at offices.....	3 10
17	B. L. Dodge.....	Office desk at supt.'s office.....	39 75
18	Charles Hatch	Expenses as supt.....	63 15
19	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Officers pay roll.....		457 66
	Pay roll No. 2.....		119 48
	Pay roll No. 3.....		389 75
	Dredge pay roll.....		253 50
	Total for month.....		\$1,544 41

ABSTRACT OF MONEY PAID.

By Charles Hatch, Superintendent Sub-Division No. 1, Grand Division No. 1,
Ohio and Erie Canal, for Material and Labor for the Improvement of
the Northern Division Ohio Canal.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>December, 1905.</i>			
1	C. B. Stebbins.....	Feeding state team etc.....	\$29 05
2	T. D. Paul.....	Expenses as civil engr.....	15 85
3	Hosea Paul.....	Expenses as civil engr.....	20 76
4	Ray I. Bachtell.....	R. R. fare and freight bills.....	13 29
5	Ed. L. Steinhour.....	R. R. fare.....	4 15
6	D. A. Williston.....	R. R. fare.....	17 20
7	George A. Patterson.....	R. R. fare.....	15 35
8	Ed. G. Major.....	R. R. fare.....	2 80
9	W. B. Watkins.....	R. R. fare.....	23 54
10	C. W. Lewis.....	R. R. fare.....	4 14
11	D. A. Ely.....	Livery.....	38 40
12	J. M. Jones.....	Coal oil, lanterns, etc., at weigh lock.....	2 30
13	J. J. Eberly.....	Repairs at weigh lock.....	7 35
14	McCourt & Ely.....	Work done by contract.....	200 00
15	French & Anderson.....	Painting buildings at weigh lock..	151 50
16	Peterson & Wright.....	Cement.....	330 75
17	Hamlet Lumber & Supply Co.....	Cement.....	64 90
18	W. H. McCreery.....	Coal.....	6 36
19	A. Adamson.....	Material used for special work....	22 98
20	A. W. Shatts.....	Salt.....	6 25
21	William H. Mott.....	Frame for culvert at Peninsula..	2 50
22	A. H. Allen.....	New style for gates.....	5 04
23	Harter & Milar.....	Hardware for improvements.....	15 54
24	Reid Bros.....	Rubber boots.....	24 50
25	C. G. Heinton.....	General blacksmithing.....	21 83
26	Western Union Tel. Co....	Message charges.....	75
27	F. Johns.....	Returning state horse.....	15 00
28	George E. Conner.....	Time and expense in finding horse.	10 00
	Pay roll No. 1.....		434 00
	Pay roll No. 2.....		798 20
	Pay roll No. 3.....		123 75
	Pay roll No. 4.....		344 50
	Pay roll No. 5.....		34 14
	Total for month.....		\$2,806 67
<i>January, 1906.</i>			
1	T. D. Paul.....	Expenses as civil engr.....	\$38 29
2	Hosea Paul.....	Expenses as inspector.....	24 60
3	D. A. Williston.....	Expenses as inspector.....	16 18
4	Ed. L. Steinhour.....	Expenses as engr.....	5 98
5	Ed. Major.....	Expenses as engr.....	10 91
6	D. A. Ely.....	R. R. fare.....	10 00
7	Raymond Bachtell.....	R. R. fare.....	51 69

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
8	D. A. Ely.....	Freight on timber.....	31 00
9	W. M. Kelley.....	Hauling concrete mixer.....	20 00
10	Braund-Vaughan Coal Co..	Coal for steam engine.....	7 79
11	A. W. Shatts.....	Salt for A. A. Likens.....	8 75
12	Hugh L. Beavis.....	Gravel	60 00
13	Peterson & Wright.....	Cement	96 45
14	Fred E. Greer.....	Hauling castings	5 00
15	W. B. Watkins.....	Expenses as inspector and supplies	25 03
16	The Mead Lumber Co.....	Lumber used on repairs.....	75 40
17	The Burger Iron Co.....	Lock construction.....	66 44
18	American Scrap Iron Co...	Aqueduct construction	9 00
19	Ira Dreisbach	R. R. fare.....	6 52
20	P. T. McCourt.....	Livery (by Paul).....	16 20
21	Conrad Keist	Hauling and freight bills.....	4 25
23	W. M. Pattison Supply Co.	Supplies	36 12
24	The Hamlet Lumber Supply Co.	Cement used by Likens.....	430 38
25	Thomas Wilson	Livery (by Paul).....	1 00
26	G. A. Kempel.....	Supplies	1 72
27	Carpenter, Van Kamp & Wilds	R. R. fare.....	19 69
28	Charles Stebbins	Feeding state team, etc.....	24 85
29	Andrew Stuart	Livery (by Paul).....	35 37
30	Anna E. Beers.....	Hardware used on repairs.....	3 61
31	H. F. Peck.....	Prints	42 00
32	W. M. Pattison Supply Co.	Rent of engine (by Likens).....	70 00
	Pay roll No. 1.....	.....	328 75
	Pay roll No. 2.....	.....	554 61
	Pay roll No. 3.....	.....	694 75
	Pay roll No. 4.....	.....	296 50
	Pay roll No. 5.....	.....	1,201 21
	Total for month.....	.....	\$4,330 04
<i>February, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$25 45
2	T. D. Paul.....	Expenses as civil engr.....	7 80
3	W. B. Watkins.....	R. R. fare as inspector.....	6 25
4	W. B. Watkins.....	R. R. fare as inspector.....	16 44
5	Hosea Paul	R. R. fare.....	11 30
6	Raymond I. Bachtell.....	R. R. fare.....	11 42
7	D. A. Williston.....	R. R. fare.....	5 29
8	Ed. G. Major.....	R. R. fare.....	3 85
9	Harter & Milar.....	Hardware used on repairs.....	9 10
10	Peterson & Wright.....	Cement used on repairs.....	17 75
11	Dayton A. Ely.....	Labor performed	33 90
12	Cleveland Paper Mfg. Co..	Labor performed	125 94
13	Slusser-McLean Scraper Co	Material used for flood gates....	2 33
14	Hugh H. Beavis	Gravel	11 25
15	M. O'Neil & Co.....	Office supplies	7 20
16	Charles M. Knight.....	Services rendered	12 50

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
	Pay roll No. 1.....	.....	253 75
	Pay roll No. 2.....	.....	489 00
	Total for month.....	.....	\$1,350 52
	<i>March, 1906.</i>		
1	C. B. Stebbins.....	Feeding state team, etc.....	\$24 98
2	T. D. Paul.....	Expenses as engr.....	22 90
3	Frank Bonstedt	Expenses as inspector.....	23 93
4	W. B. Watkins.....	Expenses as inspector.....	10 69
5	Ed. L. Steinhour.....	Survey of Adamson property....	4 25
6	C. G. Heinton.....	Blacksmithing	19 54
7	Harter & Milar.....	Hardware	5 80
8	The McIntosh Hardware Co.....	Hardware	10 60
9	M. O'Neil & Co.....	Office supplies	3 30
10	J. C. Ulmer & Co.....	Overhauling rods	3 65
	Pay roll No. 1.....	.....	244 00
	Pay roll No. 2.....	.....	509 25
	Pay roll No. 3.....	.....	80 50
	Total for month.....	.....	\$963 39
	<i>April, 1906.</i>		
1	C. B. Stebbins.....	Feeding state team, R. R. fare, etc.	\$41 31
2	T. D. Paul.....	Expenses as civil engr.....	16 36
3	Frank Bonstedt	R. R. fare.....	29 40
4	R. I. Bachtell.....	R. R. fare.....	35 94
5	Ed. G. Major.....	R. R. fare.....	8 30
6	W. B. Watkins.....	R. R. fare.....	13 04
7	Mary Paul	Typewriting	13 50
8	E. J. McLaughlin.....	Lumber used on repairs.....	241 74
9	Mead Lumber Co.....	Lumber used on repairs.....	21 60
10	Harter & Milar.....	Hardware used on repairs.....	30 95
11	Peterson & Wright.....	Cement used on repairs.....	63 00
12	The M. O'Neil Co.....	Office supplies	10 35
13	P. A. Alcox.....	Tape measure	5 00
14	Walter L. Sackmann.....	Brass figures	3 00
15	Ralph W. Bar.....	Supplies	6 25
16	C. H. Burgess.....	Cement delivered to A. A. Likens.	61 71
17	John A. Hanlon.....	Expenses as engr.....	84 00
	Pay rolls Nos. 1 and 2.....	.....	862 50
	Pay roll No. 3.....	.....	522 56
	Total for month.....	.....	\$2,070 51

1000

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>May, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$30 95
2	T. D. Paul.....	Expenses as civil engr.....	31 32
3	Sam J. Hibbs.....	R. R. fare.....	19 05
4	Frank Bonstedt	R. R. fare.....	26 30
5	A. H. Johnston.....	R. R. fare.....	17 15
6	R. I. Bachtell.....	R. R. fare.....	20 93
7	W. B. Watkins.....	R. R. fare.....	11 00
8	Ed. G. Major.....	R. R. fare.....	31 20
9	E. J. McLaughlin.....	Labor and material.....	55 76
10	C. H. Burgess.....	Car for shipping stone.....	73 83
11	C. Keist	Teaming	5 50
12	The Atlantic Foundry Co..	Draying	37 75
13	W. H. Lawless.....	Livery	9 50
14	P. T. McCourt.....	Livery	2 50
15	Ashley Ames & Son.....	Livery	2 50
16	Mead Lumber Co.....	Lumber	153 28
17	Hardware & Supply Co....	Hardware	11 16
18	Harter & Milar.....	Hardware	22 79
19	Charles M. Knight.....	Determining gravity of stone...	1 50
20	L. Loveman	Rubber boots	23 75
21	N. L. Moody.....	Rubber boots	3 50
22	The Mitchell Bros. Co....	Dynamite	13 42
23	H. F. Peck.....	Prints	10 00
24	Akron Tent & Awning Co.	Hip roof tent.....	22 00
25	Peterson & Wright.....	Cement	32 11
26	W. M. Pattison Supply Co.	Supplies used on repairs.....	44 21
27	The Burger Iron Co.....	Iron supplies used at Peninsula...	40 10
28	Franklin Bros.....	Sand	4 50
29	John Zimmerman	Protection stone	81 25
30	South Brooklyn Coal Co..	Coal	73 38
	Pay roll No. 1.....	.....	719 73
	Pay roll No. 2.....	.....	622 75
	Pay roll No. 3.....	.....	526 30
	Total .....	.....	\$2,780 97
<i>June, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$36 31
2	T. D. Paul.....	Expenses as civil engr.....	24 70
3	A. A. Likens.....	Engine, etc.	400 00
4	L. Seeley	Use and damage of grounds.....	20 00
5	C. H. Burgess.....	R. R. fare.....	81 54
6	Raymond I. Bachtell.....	R. R. fare.....	30 72
7	W. B. Watkins.....	R. R. fare.....	15 70
8	Sam J. Hibbs.....	R. R. fare.....	15 60
9	E. G. Major.....	R. R. fare.....	32 75
10	A. H. Johnson.....	R. R. fare, etc.....	2 95
11	Frank Bonstedt	R. R. fare.....	22 05
12	The Hardware & Supply Co.....	Hardware used on repairs.....	3 44
13	Anna E. Beers.....	Hardware used on repairs.....	16 98

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
14	Harter & Milar.....	Hardware used on repairs.....	47 28
15	G. M. Boodey.....	General blacksmithing	6 70
16	H. Myers	General blacksmithing	3 70
17	South Brooklyn Coal Co...	Coal for 5 mile lock improve- ment	17 50
18	Frank Hamilton	Coal for 5 mile lock improve- ment	6 95
19	W. H. Lawless.....	Livery	13 50
20	The Mills Carleton Co....	Hemlock plank	70 00
21	Peterson & Wright.....	Cement	82 50
22	Peter Schmidt	Gravel	68 25
23	U. G. Frederick Lumber Co.	Lumber	16 05
	Pay roll No. 1.....	.....	481 37
	Pay roll No. 2.....	.....	514 50
	Pay roll No. 3.....	.....	172 00
	Pay roll No. 4.....	.....	402 00
	Total for month.....	.....	\$2,605 04
<i>July, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$40 50
2	T. D. Paul.....	Expenses as civil engr.....	19 55
3	W. B. Watkins.....	R. R. fare.....	12 00
4	Sam J. Hibbs.....	R. R. fare.....	8 00
5	M. Heiser & Van Camp....	R. R. fare.....	37 60
6	Ed. Major	R. R. fare.....	9 25
7	E. J. McLaughlin.....	Extra work on lock gates.....	31 50
8	Raymond I. Bachtell.....	Freight bills, etc.....	3 50
9	A. H. Johnson.....	Freight bills, etc.....	40 55
10	The Atlantic Foundry Co..	Machining 22 gate irons.....	5 50
11	C. H. Burgess.....	1 car stone.....	35 28
12	The Bellevue Stone Co....	1 car stone.....	55 00
13	Crowell & Peck.....	Inspecting Iroquois cement.....	15 00
14	Harter & Milar.....	Hardware used on repairs.....	22 45
15	The Hardware & Supply Co.	Hardware used on repairs.....	11 62
16	Anna E. Beers.....	Hardware used on repairs.....	14 38
17	Conrad Keist	Coal	15 55
18	G. P. Harrington.....	Coal	11 55
19	G. M. Boodey.....	Blacksmithing	4 15
20	Akron Transfer Co.....	Livery	2 00
21	P. T. McCourt.....	Livery	7 50
22	W. C. Mott.....	Repairing	19 45
23	M. Brown	Gravel	8 30
24	The Upson-Walton Co....	Repairs on state boat No. 1.....	14 67
25	W. M. Pattison Supply Co.	Repairs for state boat No. 1.....	9 85
26	E. J. McLaughlin.....	Repairs and lumber for state boat No. 1	118 27
27	Mitchell Bros. Co.....	Nails, etc., for state boat No. 1..	3 45
28	The Meade Lumber Co....	Lumber on improvement.....	318 83
29	The Hankey Lumber Co..	Lumber on improvement.....	10 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
30	The Hamlet Lumber & Supply Co.	Lumber on improvement.....	23 82
31	Erwin Murphy	For right of way.....	20 00
32	C. Carl Dietz.....	For land sold State of Ohio.....	100 00
	Pay roll No. 1.....	.....	339 00
	Pay roll No. 2.....	.....	579 17
	Pay roll No. 3.....	.....	419 50
	Pay roll No. 4.....	.....	409 83
	Total for month.....	.....	\$2,796 57
<i>August, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$31 45
2	T. D. Paul.....	Expenses as civil engr.....	54 35
3	Frank Bonstedt	R. R. fare, etc.....	50 05
4	W. B. Watkins.....	R. R. fare, etc.....	10 20
5	C. H. Burgess.....	Iron supplies	102 87
6	R. I. Bachtell.....	R. R. fare, etc.....	4 76
7	A. H. Johson.....	R. R. fare and freight bills.....	6 25
8	Akron Lumber Co.....	Lumber used on improvement....	5 00
9	R. Hopkins	Lumber used on improvement....	3 08
10	The Summit Lumber Co....	Lumber used on improvement....	23 20
11	E. J. McLaughlin.....	Lumber used on improvement....	7 20
12	U. G. Fredrick Lumber Co.	Lumber used on improvement....	12 00
13	The Bellevue Stone Co....	Stone used on improvement.....	97 69
14	Julia Wood	Sand used on improvement.....	10 00
15	Harter & Milar.....	Hardware used on improvement..	6 01
16	A. Adamson	Supplies used on improvement....	4 37
17	The American Scrap Iron Co.	Iron used on improvement.....	22 40
18	G. A. Kempel & Co.....	Iron used on improvement.....	9 45
20	Conrad Keist	Coal	28 37
21	American Steel & Wire Co.	Iron for lock 41.....	11 53
22	Cuyahoga County	Raising bridges in Cuyahoga County	84 00
	Pay roll No. 1.....	.....	343 25
	Pay roll No. 2.....	.....	531 49
	Pay roll No. 3.....	.....	486 50
	Pay roll No. 4.....	.....	283 00
	Total for month.....	.....	\$2,228 47
<i>September, 1906.</i>			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$45 58
2	T. D. Paul.....	Expenses as civil engr.....	33 98
3	Paul Bros.	Typewriting, etc.	16 20
4	W. B. Watkins.....	R. R. fare, etc.....	11 90
5	Ed. G. Major.....	R. R. fare, etc.....	14 17
6	George E. Corner.....	R. R. fare, etc.....	8 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
7	C. H. Burgess.....	Stone for A. A. Likens.....	272 40
8	American Scrap Iron Co...	Rails for Feeder bridge, Peninsula	12 00
9	B. B. Bam.....	Loading plank, etc.....	14 38
10	The Bellevue Stone Co....	Stone at Peninsula.....	54 25
11	The Austin Powder Co....	Sand	65 75
12	C. Keist	Teaming	3 67
13	W. H. Lawless.....	Livery	4 00
14	G. M. Boodey.....	Dressing tools, etc.....	11 25
15	B. T. Savacool	Repairing harness	4 10
16	W. A. McClellan.....	Repairing offices at lock 1, etc..	42 44
17	Will H. Stare.....	Lumber	28 25
18	G. A. Kempel.....	Iron supplies	1 34
19	The Hardware & Supply Co	Hardware used on improvement..	29 03
	Pay roll No. 1.....	.....	348 50
	Pay roll No. 2.....	.....	467 75
	Pay roll No. 3.....	.....	389 00
	Total for month.....	.....	\$1,877 94
October, 1906.			
1	C. B. Stebbins.....	Feeding state team, etc.....	\$34 35
2	T. D. Paul.....	Expenses as civil engr.....	26 34
3	Ed. Major	R. R. fare.....	4 60
4	John M. Crawford.....	R. R. fare and expenses as inspector	13 55
5	W. B. Watkins.....	R. R. fare and expenses as inspector	20 40
6	Raymond I. Bachtell.....	R. R. fare and expenses as inspector	25 65
7	W. M. Pattison Supply Co.	Rent of Emerson pump.....	9 00
8	The Hardware Supply Co..	Nails, etc.	2 85
9	J. C. Ulmer & Co.....	Tape	7 20
10	The Massillon Iron & Steel Co.	Pipe, etc.	387 07
11	The American Scrap Iron Co.	Rails used at Botzum culvert....	14 40
12	Peterson & Wright	Cement used at Botzum culvert..	62 40
13	Eli W. Cannell.....	Salt	5 00
14	N. L. Moody.....	Rubber boots	30 00
15	The Guy & Ralph Gray Co.	Derricks	38 40
16	South Brooklyn Coal Co..	Coal for steam dredge.....	51 15
17	Barnes & Conklin Lumber Co.	Lumber for Cleveland lock gates.	254 06
18	A. A. Richardson.....	Services rendered	27 50
	Pay roll No. 1.....	.....	432 50
	Pay roll No. 2.....	.....	612 00
	Pay roll No. 4.....	.....	114 25
	Total for month.....	.....	\$2,172 67

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>November, 1906.</i>			
1	Charles Stebbins	Feeding state team, etc.....	\$25 45
2	T. D. Paul.....	Expenses as civil engr.....	27 80
3	John M. Crawford.....	R. R. fare.....	18 95
4	W. B. Watkins.....	R. R. fare.....	2 60
5	R. I. Bachtell.....	R. R. fare.....	15 03
6	Peter Schmit	Gravel for extension on sluice gates	22 50
7	D. E. Sullivan & Son.....	Gravel and sand.....	619 95
8	Neinhuser Bros.	Coal for pumping outlet lock at Cleveland	46 43
9	A. A. Likens.....	Services as stone mason, etc.....	164 75
10	South Brooklyn Co.....	Coal used 5 mile lock.....	3 30
11	The J. C. Ulmer Co.....	Repairs on K. & C. transit.....	8 70
12	C. H. Hoyt Mfg. Co.....	53 wals. avenama varbolineum....	37 10
13	Eli W. Cannell.....	Cement used on sluice gate at P. Smithe bridge.....	53 21
14	Peterson & Wright.....	Cement used on culvert near Botzum	103 84
15	The American Scrap Iron Co.	Rails used at 11 mile waste weir.	48 00
16	The Paragon Insulative Co.	Rails	75 00
17	J. H. Green.....	Damage of potatoes.....	15 00
18	The Bellevue Stone Co....	Stone for culvert at Botzum.....	51 13
19	The Hardware & Supply Co.	Machine bit	1 00
20	W. M. Patterson Supply Co	Supplies for derrick.....	117 78
21	J. J. Eberle.....	Supplies for gates at Cleveland..	61 50
22	The Krause Hardware Co..	Smoke stack for hoisting engine..	3 56
23	Fitzer & Co.....	Canal gates	38 50
24	Austin Powder Co.....	Repairing tools	12 10
	Pay roll No. 1.....	.....	388 49
	Pay roll No. 2.....	.....	530 46
	Pay roll No. 3.....	.....	398 00
	Total for month.....	.....	\$2,889 93

ABSTRACT OF MONEY PAID.

By Charles Hatch, Superintendent Division No. 1, Sub-Division No. 1, Ohio Canal, for Material and Labor for Repairs at Portage Lakes.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>June, 1906.</i>	
	Portage Lake pay roll.....	.....	\$50 25
	Total for month.....	.....	\$50 25
		<i>July, 1906.</i>	
	Pay roll No. 1.....	.....	\$64 75
	Total for month.....	.....	\$64 75
		<i>August, 1906.</i>	
	Pav roll No. 1.....	.....	\$116 37
	Total for month.....	.....	\$116 37

ABSTRACT OF MONEY PAID.

By Charles H. Geidel, Superintendent Sub-Division No. 2, Grand Division No. 1, Ohio and Erie Canal, for Material and Labor for the Maintenance and Repair of the Public Works.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>December, 1905.</i>	
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	W. H. Wilson.....	Expenses as collector.....	1 30
4	L. P. Wilson.....	R. R. fare.....	3 00
5	Wilgus Hardware Co.....	1 pump for boat.....	3 00
6	A. L. Norman.....	R. R. fare.....	3 20
7	Citizens Telephone Co.....	Rent of telephone, Oct. 1-Dec. 31.	3 75
8	J. R. Stewart.....	Repairing buggy for Foreman....	4 60
9	Adams & Gleason.....	Oak lumber	5 91

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
10	C. Norman	Livery for Wilson	6 50
11	Samuel Shaeffer	Iron for derrick repairs	15 20
12	Charles H. Geidel	Expenses as supt.	53 65
13	Charles E. Perkins	Traveling expenses as chief engr.	10 00
14	W. H. McClintock	Sundries as per bill	4 20
15	F. W. Schaub	Messenger service	10 50
16	Samuel Bachtell	Traveling expenses as asst. engr.	4 50
	Pay roll of officers		259 16
	Pay roll No. 1		167 52
	Pay roll No. 2		70 50
	Total for month		\$666 49
<i>January, 1906.</i>			
1	L. P. Wilson	Feeding team	\$20 00
2	A. L. Norman	Feeding team	20 00
3	W. H. Wilson	Expenses as collector	2 10
4	M. S. Harvey	Expenses as collector	3 05
5	J. A. Bell	Hardware supplies for Norman ..	3 35
6	Age Publishing Co.	500 notices Canal Laws, Sec. 51-52-53	3 50
7	Estate of Samuel Hilton ..	100 yds. earth for fill Trenton feeder	5 00
8	A. T. Lechty	200 yds. earth for fill Trenton feeder	8 00
9	L. P. Wilson	Traveling expenses and telephone ..	11 45
10	C. H. Geidel	Expenses as supt.	49 10
11	G. W. Hilton	3 mos. rent Wave Mill Dam	75 00
12	Zoar Mills	Rent Zoar Dam, year 1905	100 00
13	Charles E. Perkins	Traveling expenses as chief engr.	9 00
14	F. W. Schaub	Messenger service	6 66
15	W. H. McClintock	Traveling expenses as secretary ..	5 00
16	Leo Veit	Services in finding stolen transit ..	25 00
	Pay roll of officers		258 16
	Pay roll No. 1		167 45
	Pay roll No. 2		115 40
	Total for month		\$888 22
<i>February, 1906.</i>			
1	L. P. Wilson	Feeding team	\$20 00
2	A. L. Norman	Feeding team	20 00
3	W. H. Wilson	Expenses as collector	6 00
4	G. W. Miskimen	1 ax and handle	1 15
5	R. R. Parcell	Blacksmith work	1 45
6	J. A. Bell	Hardware	1 85
7	Alonzo Clark	Rubber boots	3 25
8	A. L. Norman	Telephone rent and R. R. fare	5 25
9	The I. Crater Co.	Hardware	6 10

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
10	L. P. Wilson.....	Traveling expenses	9 40
11	C. H. Geidel.....	Expenses as supt.	59 15
12	Samuel Bachtell.....	Traveling expenses as asst. engr.	3 60
13	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
	Pay roll of officers.....	.....	259 16
	Pay roll No. 1.....	.....	242 37
	Pay roll No. 2.....	.....	155 50
	Total for month.....	.....	\$804 23
<i>March, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	M. S. Harvey.....	Expenses as collector.....	7 45
4	Williams Ginnery.....	Hardware	8 00
5	R. Rieser.....	Hardware	6 00
6	Robert Hug.....	Duck for state boat deck.....	6 65
7	T. D. Neighbor.....	Lumber for repairing break at Navarre	7 50
8	Zinsmaster & Fisher.....	Hardware	9 10
9	H. W. Westhafer.....	Dynamite, caps, fuse, etc.....	9 65
10	L. P. Wilson.....	Traveling expenses	10 25
11	Clyde Wand.....	Team furnished Wilson.....	3 25
12	J. R. Stewart.....	Repairing buggy	12 00
13	Charles H. Geidel.....	Expenses as supt.	53 90
14	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
15	Samuel Bachtell.....	Traveling expenses as asst. engr.	5 15
16	Charles W. Diehl.....	Services rendered as per bill.....	8 00
	Pay roll of officers.....	.....	269 16
	Pay roll No. 1.....	.....	171 50
	Pay roll No. 2.....	.....	159 24
	Total for month.....	.....	\$791 80
<i>April, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	C. S. Frazier.....	Hardware	1 00
4	J. L. Mackey.....	Tree for balance beam.....	2 50
5	H. G. Steeler.....	Rubber boots	3 25
6	C. R. Carr.....	Blacksmithing	3 40
7	L. P. Wilson.....	Traveling expenses	5 15
8	O. P. Taylor & Son.....	Rope	10 50
9	A. L. Norman.....	Traveling expenses and tel. rent..	7 20
10	Alonzo Clark.....	Rubber boots	10 50
11	Joseph Mulvane & Co.....	Paint, oil, etc., for state boat....	14 75
12	Gray Hardware Co.....	Wheelbarrows	15 50
13	Samuel Stettler.....	Rubber boots	20 00
14	Geo. B. Deardorff & Son..	Hardware	23 31

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
15	Coshocton Lumber Co.....	Lumber	23 52
16	D. F. Lash.....	Rope, etc.	31 95
17	James A. Bell.....	Hardware	34 35
18	G. W. Hilton.....	Rent of Dam to July 12th, 1906..	75 00
19	Charles H. Geidel.....	Expenses as supt.	55 05
20	Margaret S. Harvey.....	Expenses as collector.....	1 35
21	William H. Wilson.....	Expenses as collector.....	2 35
22	Zinsmaster & Fisher.....	Grass hook and shovel.....	1 10
23	Samuel Bachtell	Traveling expenses as asst. engr.	6 80
24	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	269 16
	Pay roll No. 1.....	.....	451 20
	Pay roll No. 2.....	.....	308 25
	Pay roll No. 3.....	.....	123 00
	Total for month.....	.....	\$1,555 14
May, 1906.			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team and freight.....	20 75
3	W. H. Wilson.....	Expenses as collector.....	7 40
4	R. H. Mulvane.....	Lumber	1 04
5	A. H. Thompson & Son....	Cement for Lewisville culvert...	1 05
6	C. Bence	Hardware	1 80
7	C. L. Wand.....	Livery	2 75
8	S. A. Conrad.....	Two steel blocks.....	2 80
9	R. R. Parcell.....	Blacksmith work	3 05
10	C. H. Klein.....	Hardware supplies	3 25
11	F. Wentz	Lumber for Sugar Creek Dam...	3 54
12	H. A. Harger.....	Hardware	3 75
13	Levi Williams	Legal services	5 00
14	L. P. Wilson.....	Incidental expenses	6 97
15	Citizens Tel. Co.	6 mos. telephone service, supt.'s office	7 50
16	R. Reiser	Hardware supplies	7 52
17	Samuel Stettler	Rubber boots	9 50
18	Gray Hardware Co.....	Wheel barrows	15 50
19	George B. Deardorff & Son	Rope, hoe, nails.....	25 15
20	W. G. Johnston.....	Services rendered	50 00
21	B. W. Ricketts.....	Hardware supplies	51 95
22	C. H. Geidel.....	Expenses as supt.	58 85
23	Samuel Shaffer	Services rendered	4 65
24	Charles E. Perkins.....	Traveling expenses as chief engr.	12 50
	Pay roll of officers.....	.....	294 16
	Pay roll No. 1.....	.....	496 35
	Pay roll No. 2.....	.....	253 00
	Pay roll No. 3.....	.....	336 25
	Pay-roll No. 4.....	.....	97 50
	Total for month.....	.....	\$1,803 53

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Telephone rent, feeding team, etc.	24 00
3	W. H. Wilson.....	Expenses as collector.....	1 50
4	M. S. Harvey.....	Expenses as collector.....	10 80
5	W. A. Emerson.....	Timber for Turkey Lock.....	1 50
6	D. F. Lash.....	Rope etc.	2 00
7	L. P. Wilson.....	Traveling expenses, nails, etc....	3 20
8	C. S. Frazier.....	Supplies for repairing Dresden lock	11 00
9	A. H. Thomson & Son.....	Cement for Dresden lock.....	19 96
10	E. J. Neff.....	Timber for Tucker's lock.....	42 38
11	A. H. Compton.....	Repairing harness	7 75
12	H. A. Smith.....	Nails, shovel	71
13	C. H. Geidel.....	Expenses as supt.....	56 70
14	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....		294 16
	Pay roll No. 1.....		419 50
	Pay roll No. 2.....		297 50
	Pay roll No. 3.....		171 25
	Pay roll No. 4.....		122 74
	Total for month.....		\$1,521 65
<i>July, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	S. C. Detrich.....	Scythe and snath	1 25
4	George B. Deardorff & Son	Hardware	1 75
5	R. R. Parcell.....	Blacksmithing	2 45
6	L. P. Wilson.....	Livery, telephone messages.....	2 50
7	J. F. Reiser.....	Cotton, bucket, cement.....	5 08
8	J. A. Bell.....	Hardware supplies	10 90
9	A. L. Norman.....	Making fill at Clark's bridge....	12 40
10	G. W. Hilton.....	3 mos. rent Wave Mill Dam.....	75 00
11	C. H. Geidel.....	Expenses as supt.....	57 60
12	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
13	John Wilson.....	Making gates lock No. 20.....	50 00
14	J. N. Kissner.....	Driving piling	1,645 00
	Pay roll of officers.....		294 16
	Pay roll No. 1.....		363 60
	Pay roll No. 2.....		289 25
	Total for month.....		\$2,865 94
<i>August, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	W. H. Wilson.....	Expenses as collector.....	1 15
4	M. S. Harvey.....	Expenses as collector.....	10 90

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
5	The I. Crater Co.....	Hardware	1 05
6	L. P. Wilson.....	Freight, drayage, telephone mess. etc.	2 05
7	R. Reiser	Hardware	2 10
8	Gleason Lumber Co.....	Lumber	2 13
9	Zinsmaster & Fisher.....	Axes	2 25
10	Columbus Bolt Works.....	Bolts for gates Locks 20 and 21..	2 30
11	Geo. B. Deardorff & Son...	Rope and oil cloth.....	3 19
12	A. L. Norman.....	R. R. fare, wedges, etc.....	3 30
13	The I. Crater Co.....	Hardware	4 40
14	William Ginnery	Blacksmith work	6 65
15	Al Shoman	Traveling expenses	13 00
16	John Bimeler	Piles for bank near Trenton....	31 02
17	G. W. Miskimen.....	Lumber for locks 27.....	48 92
18	John Wilson	Labor on gate for lock 27.....	50 00
19	C. H. Geidel.....	Exnenses as supt.....	55 05
20	Archie Clark	Teams	5 00
21	C. M. Hay.....	Views of the Dresden locks.....	5 69
22	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....		294 16
	Pay roll No. 1.....		322 70
	Pay roll No. 2.....		318 00
	Total for month.....		\$1,240 01
September, 1906.			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	M. S. Harvey.....	Expenses as collector.....	1 45
4	W. H. Wilson.....	Expenses as collector.....	2 75
5	W. U. Tel. Co.....	Telegraph service	1 00
6	D. F. Lash.....	Ladder	1 60
7	Geo. B. Deardorff & Son...	Pick handles, rope.....	2 28
8	A. H. Thompson & Son....	Cement for Turkey lock slides...	3 25
9	L. Stemple	Blacksmith work	3 50
10	Coshocton Hardware Co...	Rope and express	3 64
11	A. Shoman	Traveling expenses	5 90
12	L. P. Wilson.....	Telephone rent, etc.....	8 30
13	F. W. Wise.....	Blacksmith work	17 55
14	George Pharion	Blacksmith	2 40
15	Charles H. Geidel.....	Expenses as supt.....	59 45
16	Citizen's Tel. Co.....	3 mos. rent of telephone.....	3 75
17	M. Wimmer, J. P.....	Jurors' fees in Dobson case.....	4 50
18	W. S. Shore.....	Cleaning outside cut.....	9 75
19	Charles E. Perkins.....	Traveling expenses of chief engr.	15 00
	Pay roll of officers.....		294 16
	Pay roll No. 1.....		292 35
	Pay roll No. 2.....		273 50
	Pay roll No. 3.....		291 80
	Total for month.....		\$1,337 88

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>October, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Telephone rent and feeding team.	23 00
3	M. S. Harvey.....	Expenses as collector.....	9 17
4	A. N. Compton & Co.....	3 hitch straps.....	1 05
5	R. R. Parcell.....	Blacksmith work	1 65
6	L. P. Wilson.....	Livery and telegraph messages...	1 75
7	Adams & Gleason.....	Lumber for Norman.....	2 64
8	A. Clark	1 pr. hip boots.....	5 50
9	Geo. B. Deardorff & Son...	Hardware	6 05
10	S. Stemple	Blacksmith work	6 75
11	James A. Bell.....	Hardware	18 40
12	C. E. Camp.....	Livery for supt., foreman and collector	30 00
13	Charles H. Geidel.....	Expenses as supt.....	58 55
14	G. W. Hilton.....	3 mos. rent of Wave Mill Dam...	75 00
15	Wible-Enck Co.	Lumber for tool house at Dover..	141 37
16	Walter Shore	Services rendered	3 40
17	C. E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	294 16
	Pay roll No. 1.....	.....	297 30
	Pay roll No. 2.....	.....	196 62
	Total for month.....	.....	\$1,207 36
<i>November, 1906.</i>			
1	L. P. Wilson.....	Feeding team	\$20 00
2	A. L. Norman.....	Feeding team	20 00
3	W. H. Wilson.....	Expenses as collector	4 10
4	M. S. Harvey.....	Expenses as collector.....	7 15
5	C. H. Klein.....	1 scythe snath.....	60
6	L. P. Wilson.....	Traveling expenses	5 50
7	Geo. B. Deardorff & Son...	Paint, brushes, oil, nails, axes and handles	6 57
8	Samuel Stettler	2 pairs hip boots.....	9 00
9	C. E. Camp.....	Livery	15 50
10	Brucks & Adams.....	7 sq. asbestos roofing for tool house	21 00
11	Charles H. Geidel.....	Expenses as supt.....	56 75
12	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	294 16
	Pay roll No. 1.....	.....	191 35
	Pay roll No. 2.....	.....	97 50
	Total for month.....	.....	\$764 18

ABSTRACT OF MONEY PAID.

By Harry R. Morris, Superintendent Sub-Divisions Nos. 3 and 4, Grand Division
No. 2, Ohio and Erie Canal, for Material and Labor for the Maintenance and
Repair of the Public Works.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>December, 1905.</i>			
1	S. M. Brown.....	Feeding state horse	\$10 00
2	Alex. Richardson	Feeding state horse and expenses.	12 40
3	W. H. Kirkendall.....	Feeding state horse and expenses.	16 25
4	C. W. Watkins.....	Feeding state team.....	42 00
5	W. H. Kirkendall.....	Expenses as collector.....	8 00
6	H. R. Morris.....	Expenses as supt.....	53 80
7	George Maybolt	Rubber boots	5 60
8	Henry O. Norris.....	Lumber	11 85
9	George Keiser	Blacksmithing	14 70
10	A. Bender	Blacksmithing	50
11	Climax Livery Barn	Livery	17 00
12	Charles E. Perkins.....	Traveling expenses as chief engr.	7 50
13	Samuel Bachtell	Traveling expenses as asst. engr.	5 00
14	F. W. Schaub.....	Messenger service.....	10 50
	Pay roll of officers.....	.....	251 66
	Pay roll No. 1.....	.....	150 00
	Pay roll No. 2.....	.....	398 36
	Pay roll No. 3.....	.....	137 37
	Total for month.....	.....	\$1,152 49
<i>January, 1906.</i>			
1	S. M. Brown.....	Feeding state horse.....	\$10 00
2	Alex. Richardson	Feeding state horse and expenses.	12 50
3	W. H. Kirkendall.....	Feeding state horse and expenses.	15 50
4	C. W. Watkins.....	Feeding state team and expenses.	22 00
5	W. H. Kirkendall.....	Expenses as collector.....	9 15
6	Harry R. Morris.....	Expenses as supt.....	66 75
7	Quinby Climer	Merchandise	1 22
8	George H. Frickardt.....	Merchandise	4 60
9	W. H. Albough.....	Livery	19 00
10	Clarence Shatteen	Labor as per contract.....	10 00
11	Charles E. Perkins.....	Traveling expenses as chief engr.	8 00
12	J. L. Brown.....	Livery	12 00
13	H. C. Burdett.....	Lumber	11 34
14	T. M. Lynn.....	Livery	3 00
15	J. S. Mosgrove.....	Bonding services	14 56
16	F. W. Schaub.....	Messenger service	6 70
	Pay roll of officers.....	.....	251 66
	Pay roll No. 1.....	.....	105 00
	Pay roll No. 2.....	.....	128 00
	Pay roll No. 3.....	.....	185 75
	Total for month.....	.....	\$896 73

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>February, 1906.</i>			
1	S. M. Brown.....	Feeding state horse and expenses.	\$12 65
2	Alex. Richardson	Feeding state horse and expenses.	12 15
3	W. H. Kirkendall.....	Feeding state horse and expenses.	13 50
4	C. W. Watkins.....	Feeding state team and expenses.	22 00
5	W. H. Kirkendall.....	Expenses as collector.....	6 25
6	Harry R. Morris.....	Expenses as supt.....	49 69
7	Drone & Son.....	Blacksmithing	1 50
8	Geo. W. Bauder & others..	Services as commissioners.....	15 00
9	The Tracy Shoe Co.....	Rubber boots	12 33
10	Charles E. Perkins.....	Traveling expenses as chief engr.	8 00
	Pay roll of officers.....	.....	251 66
	Pay roll No. 1.....	.....	100 00
	Pay roll No. 2.....	.....	75 50
	Pay roll No. 3.....	.....	251 00
	Total for month.....	.....	\$831 23
<i>March, 1906.</i>			
1	S. M. Brown.....	Feeding state horse and expenses.	\$12 10
2	Alex. Richardson	Feeding state horse and expenses.	12 10
3	W. H. Kirkendall.....	Feeding state horse and expenses.	15 00
4	C. W. Watkins.....	Feeding state team and expenses.	36 40
5	W. H. Kirkendall.....	Expenses as collector.....	8 50
6	H. R. Morris.....	Expenses as supt.....	63 70
7	James W. Kelly.....	Labor per contract.....	12 00
8	J. A. Breinig.....	Hardware	8 65
9	George Keiser	Blacksmithing	13 75
10	The New Climax Livery..	Livery	8 00
11	Mendenhall Bros. & Guth..	Hardware	3 65
12	Charles E. Perkins.....	Traveling expenses as chief engr.	8 00
13	Charles W. Diehl.....	Services as per bill.....	8 00
14	W. H. Stoker.....	Livery	4 00
	Pay roll of officers.....	.....	231 66
	Pay roll No. 1.....	.....	113 00
	Pay roll No. 2.....	.....	77 00
	Pay roll No. 3.....	.....	247 50
	Total for month.....	.....	\$883 01
<i>April, 1906.</i>			
1	S. M. Brown.....	Feeding state horse and expenses.	\$13 25
2	Alex. Richardson	Feeding state horse and expenses.	23 13
3	W. H. Kirkendall.....	Feeding state horse and expenses.	15 98
4	C. W. Watkins.....	Feeding state team and expenses.	34 10
5	W. H. Kirkendall.....	Expenses as collector.....	9 00
6	W. B. Watkins.....	R. R. fare.....	7 00
7	H. R. Morris.....	Expenses as supt.....	63 75
8	Showalter & Bowman.....	Nails	1 62
9	Cune Crane Hardware Co..	Hardware	3 79

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
10	Jacob Eitel	Wheelbarrow	1 75
11	C. Beuford & Son.....	Hardware	39 94
12	Hibbs Hardware Co.....	Wheelbarrows	36 00
13	J. S. Oxley.....	Harness	9 35
14	Drone & Son.....	Blacksmithing	15 50
15	Matthew Taffe, Jr.....	Blacksmithing	10 28
16	John A. Williamson.....	Lumber and nails.....	8 60
17	Carry Brown	Timber	32 77
18	George Weidinger	Timber and lumber.....	129 75
19	George Stout	Sawing lumber	8 74
20	Lou Fisher	Steamer for inspecting tour.....	10 00
21	W. W. Metzger.....	Team work as per contract.....	7 50
22	Albert Burk	Team work as per contract.....	4 50
23	J. H. Oty.....	Team work as per contract.....	2 00
24	Clarence Shasteen	Labor as per contract.....	4 50
25	W. H. Stoker, Agt.....	Livery	8 00
26	T. M. Lynn.....	Livery	6 00
27	Charles E. Perkins.....	Traveling expenses as chief engr.....	8 00
	Pay roll of officers.....		231 66
	Pay roll No. 1.....		73 50
	Pay roll No. 2.....		266 38
	Pay roll No. 3.....		760 00
	Pay roll No. 4.....		385 50
	Pay roll No. 5.....		353 24
	Pay roll No. 6.....		51 00
	Total for month.....		\$2,636 08
May, 1906.			
1	S. M. Brown.....	Feeding state horse and expenses.....	\$10 68
2	Alex. Richardson	Feeding state horse and expenses.....	31 00
3	W. H. Kirkendall.....	Feeding state horse and expenses.....	30 11
4	C. W. Watkins.....	Feeding team and expenses.....	34 65
5	J. J. Steinhauer.....	Making fill and rip-rapping	250 00
6	W. M. Metzger.....	Team work	7 00
7	Sommer Bros.	Bale oakum and freight.....	4 50
8	W. H. Kirkendall.....	Expenses as collector.....	4 75
9	H. R. Morris.....	Expenses as supt.....	67 65
10	J. S. Ritt.....	Rubber boots	5 50
11	George Keiser	Blacksmithing	18 85
12	Philip Lorbach, Jr.....	Harness repairs, etc.....	79 54
13	J. C. Hewitt.....	Lumber	59 62
14	Philip Hernstein	Lumber	163 38
15	Carry Brown	Saw logs	9 06
16	Ella Layton	Saw logs	33 75
17	Reed & Marshall.....	Lumber	173 50
18	C. A. Hertenstein.....	Hardware	10 87
19	J. A. Breinig.....	Hardware	14 39
20	C. Beuford & Son.....	Hardware	5 75
21	C. W. Smith.....	Hardware	2 50
22	Louis F. Stahler.....	Spring seat	

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
23	William S. West & Son....	Well pump	10 00
24	W. H. Albaugh.....	Livery	35 00
25	W. H. Stoker, Agt.....	Livery	16 50
26	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
27	George Stout	Services performed	57 89
	Pay roll of officers.....		256 66
	Pay roll No. 1.....		252 25
	Pay roll No. 2.....		1,214 25
	Pay roll No. 3.....		382 12
	Pay roll No. 4.....		678 37
	Pay roll No. 5.....		114 24
	Total for month.....		\$4,047 23
<i>June, 1906.</i>			
1	S. M. Brown.....	Feeding state horse and expenses.	\$10 55
2	Alex. Richardson	Feeding state horse and expenses.	12 30
3	W. H. Kirkendall.....	Feeding state horse and expenses.	27 22
4	C. W. Watkins	Feeding team and expenses.....	33 25
5	W. H. Kirkendall.....	Expenses as collector.....	4 00
6	H. R. Morris.....	Expenses as supt.....	60 30
7	T. M. Lynn.....	Livery	3 50
8	W. H. Albaugh & Co.....	Livery	34 00
9	The Climax Livery.....	Livery	30 00
10	C. Beuford & Son.....	Hardware	22 56
11	Showalter & Bowman.....	Hardware	2 85
12	Jacob Brunner	Washers for Deer Creek Aqueduct.	16 25
13	J. A. McLaughlin & Bros.	Rubber tire for buggy.....	20 00
14	Charles Schwarz	Blacksmithing	7 50
15	J. Wolf & Son.....	Blacksmithing	6 10
16	George Stout	Sawing lumber	35 32
17	Jacob Leist	Saw logs	60 50
18	Frank Hoffman	Lumber	60 50
19	Patterson & Rader	Lumber	46 48
20	J. C. Hewitt.....	Lumber	6 80
21	Reed & Marshall.....	Lumber	2 12
22	The Courier Co.....	Printing notices	3 20
23	The Union Coal Co.....	Lime	108 75
24	Pickaway Cement Co.....	Cement	10 00
25	J. F. Perry.....	Cement	2 77
26	Chillicothe Coal Co.....	Brick	4 50
27	A. J. Valgamore.....	Using scrapers as per contract....	2 00
28	Charles E. Perkins.....	Traveling exnenses as chief engr.	10 00
	Pay roll of officers.....		256 66
	Pay roll No. 1.....		551 75
	Pay roll No. 2.....		132 37
	Pay roll No. 3.....		1,414 62
	Pay roll No. 4.....		59 37
	Pay roll No. 5.....		651 75
	Total for month.....		\$3,799 72

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>July 1906.</i>			
1	S. M. Brown.....	Feeding horse and expenses.....	\$12 70
2	Alex. Richardson	Feeding horse and expenses.....	14 45
3	W. H. Kirkendall.....	Feeding 2 horses and expenses..	32 05
4	C. W. Watkins.....	Feeding team and expenses.....	33 50
5	W. H. Kirkendall.....	Expenses as collector.....	5 00
6	H. R. Morris.....	Expenses as supt.....	62 45
7	W. H. Stoker, Agt.....	Livery	14 00
8	W. H. Albaugh & Co.....	Livery	6 00
9	Reed & Marshall.....	Lumber	49 62
10	Phillip Herrnstein	Lumber	55 59
11	Showalter & Bowman.....	Blacksmithing and hardware....	1 80
12	C. Beuford & Son.....	Hardware	7 70
13	A. Bender	Blacksmithing	3 25
14	J. W. Drone & Son.....	Blacksmithing	3 25
15	Pickaway Cement Block Co	Cement	52 00
16	J. E. Mick.....	Lime in Canal at Chillicothe.....	9 36
17	Charles W. Diehl.....	Traveling expenses, etc.....	35 00
18	Chas. E. Perkins.....	Traveling expenses as chief engr.	10 00
	Pay roll of officers.....		256 66
	Pay roll No. 1.....		456 50
	Pay roll No. 2.....		1,119 62
	Pay roll No. 3.....		313 25
	Total for month.....		\$2,533 75
<i>August, 1906.</i>			
1	S. M. Brown.....	Feeding horse and expenses.....	\$13 50
2	Alex. Richardson	Feeding horse and expenses.....	14 00
3	W. H. Kirkendall.....	Feeding horse and expenses.....	19 95
4	C. W. Watkins.....	Feeding team and expenses.....	38 60
5	W. H. Kirkendall.....	Expenses as collector.....	5 00
6	Harry R. Morris.....	Expenses as supt.....	59 48
7	Charles W. Rutherford....	Cement	10 50
8	Carry Brown	Sawing lumber and scraper hire..	7 00
9	Crane-Bliss Hardware Co..	Hardware	1 10
10	Chillicothe Hardware Co..	Hardware	12 45
11	Chillicothe Hardware Co..	Hardware	6 49
12	C. W. Smith.....	Hardware	4 35
13	J. A. Breinig.....	Hardware	10 80
14	O. E. Houser.....	Blacksmith and machine work....	4 22
15	Mendenhall Bros. & Guth..	Hardware	1 10
16	George Keiser	Blacksmithing	11 00
17	Sterling Planing Mill & Lumber Co.	Lumber	11 80
18	Henry O. Norris	Lumber	5 93
19	Sterling Planing Mill & Lumber Co.	Lumber	49 13
20	Reed & Marshall.....	Lumber	68 14
21	Patterson & Rader.....	Lumber	26 00
22	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
23	Samuel Bachtell	Traveling expenses as asst. engr.	70

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
24	The Ruggles-Gale Co.....	Ledger for collector.....	5 00
	Pay roll of officers.....	.....	256 66
	Pay roll No. 1.....	.....	249 50
	Pay roll No. 2.....	.....	970 50
	Pay roll No. 3.....	.....	306 50
	Total for month.....	.....	\$2,184 40
<i>September, 1906.</i>			
1	S. M. Brown.....	Feeding horse	\$10 00
2	Alex. Richardson	Feeding horse and expenses.....	13 65
3	W. H. Kirkendall.....	Feeding horse and expenses.....	14 50
4	C. W. Watkins.....	Feeding team and expenses.....	26 45
5	W. H. Kirkendall.....	Expenses as collector.....	7 35
6	H. R. Morris.....	Expenses as supt.	49 75
7	R. W. Holenbaugh.....	Shovels	1 30
8	Charles Schwartz	Blacksmithing	5 40
9	Oliver Dorsey	Lumber	10 00
10	C. Beuford & Son.....	Hardware	15 08
11	Charles Miller	Blacksmithing	1 25
12	C. W. Keuchole.....	Veterinary services	1 50
13	Climax Livery	Livery	20 00
14	W. H. Stoker.....	Livery	19 90
15	Gehres Bros.	Lumber	14 85
16	Charles E. Perkins.....	Expenses as chief engr.....	15 00
	Pay roll of officers.....	.....	256 66
	Pay roll No. 1.....	.....	219 00
	Pay roll No. 2.....	.....	181 37
	Pay roll No. 3.....	.....	189 50
	Total for month.....	.....	\$1,072 51
<i>October, 1906.</i>			
1	S. M. Brown.....	Feeding state horse one mo.....	\$10 00
2	Alex. Richardson	Feeding state horse and other ex- penses	14 10
3	W. H. Kirkendall.....	Feeding state horse and other ex- penses	19 25
4	C. W. Watkins.....	Feeding state team and other ex- penses	30 30
5	W. H. Kirkendall.....	Expenses as collector.....	21 00
6	H. R. Morris.....	Expenses as supt.	63 35
7	Pense & Swisher.....	Shingles, etc.	27 40
8	Schleyer & Barrere.....	Nails	2 25
9	W. H. Albaugh & Co.....	Livery	16 00
10	Jacob Eitel	Hardware	1 30
11	Samuel Bachtell	Traveling expenses as asst. engr.	1 50
12	C. E. Perkins	Traveling expenses as chief engr.	15 00
	Officers pay roll.....	.....	256 66

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
	Pay roll No. 1.....	.....	107 00
	Pay roll No. 2.....	.....	239 50
	Pay roll No. 3.....	.....	160 50
	Total for month.....	.....	\$985 11
	<i>November, 1906.</i>		
1	S. M. Brown.....	Feeding state horse and expenses.	\$13 40
2	Alex. Richardson	Feeding state horse and expenses.	33 85
3	W. H. Kirkendall.....	Feeding state horse and expenses.	14 00
4	C. W. Watkins.....	Feeding state team and expenses.	36 15
5	H. R. Morris.....	Expenses as supt. of repairs.....	61 45
6	W. H. Kirkendall.....	Expenses as collector.....	8 05
7	W. H. Kirkendall.....	Lumber as per bill.....	33 60
8	Frank Hoffman	Lumber as per bill.....	23 37
9	Schlyer & Barrere.....	Spikes	2 25
10	F. M. DeWeese.....	Rental and repairs on jacks.....	19 58
11	John Emmitt	1 Brown wagon.....	40 00
12	George Keiser	Blacksmithing	8 90
13	C. A. Hertenstein & Co....	Lumber	167 82
14	W. H. Stoker, Agt.....	Livery	10 00
15	J. W. Drone & Son.....	Blacksmithing	2 50
16	A. Bender	Blacksmithing	1 10
17	Samuel Bachtell	Traveling expenses as asst. engr.	1 50
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Officers pay roll.....	.....	256 66
	Pay roll No. 1.....	.....	100 00
	Pay roll No. 2.....	.....	316 75
	Pay roll No. 3.....	.....	148 25
	Total for month.....	.....	\$1,314 18

ABSTRACT OF MONEY PAID.

By Harry R. Morris, Superintendent Sub-Division No. 4, Grand Division No. 2,
Ohio and Erie Canal, for Material and Labor for Repairing Stony Fork
Aqueduct.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>January, 1906.</i>	
1	H. C. Burdett.....	Lumber	\$21 29
	Total for month.....	.....	\$21 29

ABSTRACT OF MONEY PAID.

By Harry R. Morris, Superintendent Sub-Division No. 3, Grand Division No. 2,
Ohio and Erie Canal, for Material and Labor, Repairing Banks at Buckeye
Lake.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>January, 1906.</i>	
1	Thomas Randell		
	Pay roll No. 1.....	Piling	\$10 00
	Total for month.....	.....	\$37 75
		<i>February, 1906.</i>	
1	Henry O. Norris.....	Cement	\$4 68
	Pay roll No. 1.....	.....	56 25
	Total for month.....	.....	\$60 93
		<i>April, 1906.</i>	
	Pay roll No. 1.....	.....	\$51 75
	Total for month.....	.....	\$51 75

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>May, 1906.</i>			
1	A. Bender	Blacksmithing	\$3 50
2	Spitler Bros.	Hardware	3 81
3	Showalter & Bowman.....	Hardware	8 60
4	Charles V. Walker.....	Hardware	34
5	T. H. Randall.....	Piling	7 00
6	Buckeye Planing Mill.....	Lumber	1 97
7	Pence & Swisher.....	Lumber	85
8	Henry Geiger	Lumber	96 35
9	Del Fisher Boat Line Co..	Towing flat and lumber.....	5 00
10	Charles Korzenborn Brg. Co.	Buoys	12 50
11	H. Mithoff & Co.....	Hardware	12 45
12	Oliver Dorsey	Lumber	9 89
	Pay roll		193 00
	Total for month.....		\$355 26
<i>August, 1906.</i>			
1	W. H. Booker.....	Surveying on Buckeye Lake....	\$58 70
2	Henry O. Norris.....	Lumber	8 60
3	Crane-Bliss Hardware Co..	Hardware	14 46
	Pay roll No. 1.....		157 50
	Total for month.....		\$239 26
<i>October, 1906.</i>			
1	Henry Geiger	Lumber	\$33 53
2	Henry O. Norris.....	Cement	67 56
	Pay roll		317 65
	Total for month.....		\$418 74
<i>November, 1906.</i>			
1	Henry O. Norris.....	Cement and lumber.....	\$139 20
2	B. L. Hawke.....	Crushed lime stone.....	100 39
3	John A. Spurgeon.....	Freight on lumber and tools to Buckeye Lake	1 05
4	Crane-Bliss Hardware Co..	Hardware	22 57
5	Pence & Swisher.....	Lumber	26 46
6	George Maybolt	1 pr. rubber boots.....	4 50
7	Benadum & Peters.....	Hardware	4 80
8	B. L. Hawke.....	Broken stone furnished.....	27 26
	Pay roll No. 1.....		402 72
	Pay Roll No. 2.....		193 67
	Total for month.....		\$922 62

ABSTRACT OF MONEY PAID.

Improvement Northern Division Ohio Canal, between Cleveland and Dresden,
as provided by an Act of the Seventy-Seventh General Assembly of Ohio,
by J. A. Hanlon, Engineer.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
<i>May, 1906.</i>			
1	Clifton Bros., Dresden, O.	Estimate No. 3, Outlet lock.....	\$4,164 90
2	Economy Drawing Table Co., Toledo, Ohio	Drawing table for Akron office..	33 48
3	J. C. Mercer & Co., Cleve- land, Ohio	Level and rod for Akron office...	112 00
4	M. O'Neill & Co., Akron, O.	Supplies for Akron office.....	38 28
5	Burdette L. Dodge, Akron, Ohio	Supplies for Akron office.....	31 38
6	B. W. Ricketts, Coshocton, Ohio	Hardware for survey party, Wal- honding survey	80
7	Gray Hardware Co., Cos- hocton, Ohio	Hardware for survey party, Wal- honding survey	1 75
8	L. W. Pocock, Coshocton, Ohio	Livery for survey party, Wal- honding feeder	28 25
9	Gunther Planing Mill Co., Coshocton, Ohio	Boat and stakes for Walhond- ing survey	12 38
10	Clay Miller, Roscoe, Ohio.	Team work, Walhonding survey.	3 00
11	J. A. Hanlon, Coshocton, O.	Expense account, N. Div.....	62 30
12	G. W. Crise, Buckeye City, Ohio	Expense account, Walhonding survey	28 55
13	J. A. Hanlon and others...	Pay roll, May.....	626 50
	Total for month.....		\$5,143 57
<i>June, 1906.</i>			
1	Clifton Bros., Dresden, O..	Estimate No. 4, Outlet lock.....	\$3,275 10
2	M. O'Neill & Co., Akron, O.	Supplies for Engineer's office, Akron	32 15
3	Summit Lumber Co., Ak- ron, Ohio	Material for carpenter's, Engi- neer's office	51 10
4	Harter & Milar, Akron, Ohio	Hardware for Engineer's party..	1 83
5	Akron Tent & Awning Co., Akron, Ohio	Supplies for boat.....	1 56
6	J. G. Knapp, Akron, Ohio.	Blue print bath pan, Engineer's office	1 75
7	J. A. Hanlon.....	Expense account, June.....	67 82
8	Pay roll, J. A. Hanlon and others	Engineers and inspectors.....	784 00

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
9	J. M. Crawford and others	Expense account	9 00
10	P. T. McCourt.....	Livery for engineer's party.....	9 50
	Total for month.....	.....	\$4,233 81
<i>July, 1906.</i>			
1	Clifton Bros., Zanesville, O.	Estimate No. 5, Dresden locks contract	\$1,649 66
2	Clifton Bros., Zanesville, O.	Extra bills, labor and material, Dresden locks contract.....	287 39
4	Geo. B. King, Dresden, O..	Gravel for Dresden locks.....	4 60
5	C. S. Frazier, Dresden, O.	Supplies for Dresden locks.....	65
6	John Miller, Roscoe, O...	Freight paid on cement.....	3 15
7	A. H. Thomson & Son, Coshocton, Ohio	Cement for Dresden locks.....	137 30
8	Coshocton Lumber Co., Co- shocton, Ohio	Lumber for concrete forms, Dres- den locks	6 55
9	Pemchat—Hunsicker Co., Akron, Ohio	Supplies for engineer's office, Akron	3 25
10	The M. O'Neill Co., Akron, Ohio	Supplies for engineer's office, Akron	7 58
11	The Cleveland Blue Print Co.	Supplies for engineer's office.....	1 50
12	Commercial Tribune Co., Cincinnati, Ohio	Advertising for proposals, lock work and cement.....	7 97
13	American Contractor, Chi- cago, Ill.	Advertising for proposals, lock work and cement.....	27 54
14	Scioto Gazette Co., Chilli- cothe, Ohio	Advertising for proposals, lock work and cement.....	13 13
15	Akron Times-Democrat, Akron, Ohio	Advertising for proposals, lock work and cement.....	10 40
16	Coshocton Daily Times....	Advertising for proposals, lock work and cement.....	8 75
17	Plain Dealer Pub. Co., Cleveland, Ohio	Advertising for proposals.....	10 40
18	Engineering News, New York	Advertising for proposals, lock work and cement.....	36 90
19	The Signal Co., Zanesville, Ohio	Advertising for proposals, lock work and cement.....	10 30
20	The Toledo Blade Co., To- ledo, Ohio	Advertising for proposals, lock work and cement.....	7 98

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
21	The Westbote & Express, Columbus, Ohio	Advertising for proposals, lock work and cement.....	7 57
22	The Age Publishing Co., Coshocton, Ohio	Advertising for proposals, lock work and cement.....	8 74
23	The Age Publishing Co., Coshocton, Ohio	Printing specifications Ohio Ca- nal work	31 65
24	P. T. McCourt, Akron, O..	Livery for engineer's party.....	14 50
25	W. L. Bender, Akron, Ohio	Expense account, surveys.....	19 65
26	J. A. Hanlon, Coshocton, O	Expense account—board, tramp, supplies	60 94
27	Pay roll No. 1, John Han- lon and others.....	Engineer's Akron	874 00
28	Pay roll No. 2, A. Showman man and others.....	Repair Dresden Locks.....	216 25
29	Pay roll No. 3, J. A. Gehres and others	Survey for New Reservoir.....	260 00
30	Jackson Bros., Akron, O...	Livery for J. A. Gehres.....	33 25
31	B. E. Albertson, State Mill	Boarding J. A. Gehres' party....	32 50
32	The Hankey Lumber Co., Akron, Ohio	Stakes for J. A. Gehres' party...	15 25
33	Kraus-Kirn Co., Akron, O.	Labor and material, Engineer's office, Akron	13 59
	Total for month.....		\$3,822 89
<i>August 1906.</i>			
1	J. A. Hanlon and others...	Pay roll No. 1.....	\$752 50
2	A. Showman and others...	Pay roll No. 2.....	129 25
3	J. A. Gehres and others...	Pay roll No. 3, survey new reser- voir	335 00
4	Wash Carpenter and others	Pay roll No. 4, State repair gang	480 09
5	J. A. Hanlon.....	Personal expenses	60 93
6	W. L. Bender.....	Personal expenses	33 60
7	P. T. McCourt.....	Estimate No. 1, locks Nos. 1 and 2, Sect. I.....	271 62
8	McGary & McGowan.....	Estimate No. 1, locks Nos. 20 and 21, Sect. IV.....	259 74
9	P. T. McCourt.....	Livery and teaming.....	52 70
10	Peterson & Wright.....	Cement for imp. work at Akron..	288 53
11	American Sewer Pipe Co..	Pipe for Mud Run Culvert.....	181 50
12	U. G. Frederick.....	Lumber imp. work culverts in Akron	116 66
13	Summit Lumber & Bldg. Co.	Material for Supt. Hatch.....	30 73
14	Hankey Lumber Co.....	Material for Supt. Hatch.....	8 09
15	T. D. Paul.....	Stockpole transit for engr. office..	110 00
16	J. C. Ulmer.....	2 level rods for engr. office.....	24 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
17	Underwood Typewriter Co.	Typewriter for engr. office.....	92 25
18	B. L. Dodge.....	Typewriter desk for engr. office.....	18 00
19	Central Union Tel. Co....	Extra service Aug. 15-Sept. 30..	6 75
20	Commercial Prtg. Co.....	Stationery for engr. office.....	5 75
21	Anna B. McAllister.....	Stenographic work	2 40
22	Harter & Milar.....	Hardware for imp. work.....	15 38
23	M. O'Neil & Co.....	Supplies for engr. office.....	24 31
24	Ben Albertson	Boarding Gehres' survey party...	32 50
25	Jackson Bros.	Livery for Gehres' survey party..	42 00
26	The Beacon Journal.....	Advertising for proposals for lock and cement work.....	10 40
27	Leader Prtg. Co.	Advertising for proposals for lock and cement work.....	16 78
28	The Independent Co.....	Advertising for proposals for lock and cement work.....	11 25
29	The News Pub. Co.....	Advertising for proposals for lock and cement work.....	6 90
30	The Citizen Pub. Co.....	Advertising for proposals for lock and cement work.....	7 58
	Total for month.....	.....	\$3,427 19
<i>September, 1906.</i>			
1	P. T. McCourt.....	Sept. estimate, Sec. 1.....	\$1,828 62
2	S. W. Parshall.....	Sept. estimate, Sec. 3.....	2,118 41
3	McGarry & McGowan.....	Sept. estimate, Sec. 6.....	2,006 28
4	J. N. Kissner.....	Sept. estimate Lock 16, Trenton.	643 50
5	McGarry & McGowan.....	Extra work, locks 20 and 21.....	125 00
6	Pay roll No. 1.....	J. A. Hanlon and others.....	1,105 00
7	Pay roll No. 2.....	J. A. Gehres and others.....	310 00
8	Pay roll No. 3.....	W. Carpenter and others.....	618 22
9	Atlas Portland Cement Co.	Sept. estimate, cement contract..	4,180 95
10	Peterson & Wright.....	Cement furnished at Akron.....	489 82
11	U. G. Frederick Lumber Co.	Lumber for sheds, etc.....	195 48
12	American Sewer Pipe Co..	Sewer pipe Mud Run culvert....	132 00
13	Summit Lumber Co.....	Lock culvert frames.....	87 81
14	Crowell & Peck.....	Cement testing	15 50
15	American Contr. Co.....	Advertising Walhonding Dam....	9 18
16	German-Amer. Pub. Co....	Advertising Walhonding Dam....	4 00
17	J. J. Bast.....	Livery for field party.....	16 50
18	Hardware Supply Co.....	Supplies for spillway bridge....	4 50
19	Am. Scrap Iron Co.....	Rail for spillway bridge and locks.	37 25
20	W. H. Smith.....	Stakes	3 00
21	Myers Bros.	Hardware	60
22	Taplin, Rice & Co.....	Castings and machine work.....	49 51
23	J. C. Miner & Co.....	Repairs insts.....	2 38
24	Massillon Lumber Co.....	Stakes	11 60
25	S. A. Conrad & Co.....	Hardware	2 50
26	Nichter Bros.	Livery	4 00
27	Central Union Tel. Co....	Telephone service and tolls.....	14 95
28	Ohio State Journal.....	Advertising Walhonding Dam....	4 31

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
29	Plain Dealer Pub. Co.....	Advertising Walhonding Dam....	4 78
30	Commercial Tribune Co....	Advertising Walhonding Dam....	4 32
31	B. E. Albertson.....	Boarding Gehres' party.....	35 00
32	A. Adamson	Iron and machine work.....	7 25
33	Harter & Milar.....	Hardware	45 63
34	Forman, Bassett & Hatch..	File case	5 50
35	Leader Printing Co.....	Advertising Walhonding Dam....	4 46
36	Toledo Blade Co.....	Advertising Walhonding Dam....	4 73
37	M. O'Neill & Co.....	Supplies for engrg. office.....	19 15
38	Kraus & Kirn.....	Plumbing and supplies	47 00
39	P. T. McCourt.....	Livery	28 50
40	J. A. Hanlon.....	Expense account, Sept.....	84 70
41	W. J. Bender and others...	Expense account, Sept.....	42 15
42	Jackson Bros.	Livery for Gehres' party.....	33 25
43	Cantwell Shoe Co.....	Rubber boots for 6 mile dam in- spector	9 00
44	Samuel Parmer	Boating gravel for Mud Run culvert	25 00
	Total for month.....		\$14,421 29
<i>October, 1906.</i>			
1	P. T. McCourt.....	Estimate No. 3, Akron locks....	\$1,397 07
2	P. T. McCourt.....	Livery bill, engineers.....	18 50
3	P. T. McCourt.....	Allowance part extra bill, Sept. and Oct.	100 00
4	S. W. Parshall.....	Estimate No. 2, Akron locks....	1,384 07
5	S. W. Parshall.....	Allowance part extra bill, Sept. and Oct.	300 00
6	McGarry & McGowan.....	Estimate No. 3, Akron locks....	2,470 68
7	McGarry & McGowan.....	Allowance extra bill, locks 20-21.	139 35
8	Jas. J. McGowan.....	Estimate No. 1, Mud Run culvert.	539 00
9	J. N. Kissner.....	Estimate No. 2, Lock 16, Trenton.	2,466 00
10	Clifton Bros.	Estimate No. 6 and final, Dres- den locks	255 03
11	Atlas Portland Cement Co.	Estimate No. 2 for cement de- livered	4,600 70
12	American Sewer Pipe Co..	Pipe for Mud Run culvert.....	33 00
13	U. G. Frederick Lumber Co.	Pipe for temporary bridge, lock 1.	24 00
14	Osborn Engineering Co....	Testing cement	87 00
15	The Young Co.....	Gravel for Mud Run culvert.....	57 00
16	Wm. Snider	Lumber delivered at Dresden....	112 50
17	M. O'Neill Co.	Supplies for engrg. office.....	14 43
18	C. A. McNary.....	Supplies for sounding rods 6 mile dam	20 18
19	Peterson & Wright.....	Cement for Mud Run culvert....	54 45
20	Bowers-Conkle Lumber Co.	Lumber for dams at Mud Run culvert	207 98
21	Harry J. Lewis.....	Services consulting engrg., 6 mile and Miami dams.....	182 00

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
22	Samuel Shaffer	Blacksmithing for sounding rods, 6 mile dam.....	3 00
23	Akron Plumbing & Heating Co.	Repairs and pipe and hydrant, lock 1	1 10
24	Seegrist & Knapp.....	Labor and material sounding rods.	6 96
25	Hankey Lumber Co.....	Stakes	2 00
26	Crowell & Peck.....	Sand test	1 50
27	Jackson Bros.	Livery for J. A. Gehres' party....	31 50
28	L. W. Pocock.....	Livery for work at 6 mile dam, 9 mos.	46 50
29	B. E. Albertson.....	Board for J. A. Gehres' party....	26 00
30	Age Publishing Co.....	Publishing "Notice to Contract- ors," 6 mile dam.....	6 90
31	J. A. Hanlon.....	Expense account, October.....	139 17
32	W. L. Bender.....	Expense account, October.....	13 20
33	Pay roll No. 1.....	J. A. Hanlon and others, Oct. engrs.	973 50
34	Pay roll No. 2.....	A. Showman and others, 6 mile dam	79 25
35	Pay roll No. 3.....	J. A. Gehres' party, reservoir sur- vey, October	297 50
36	Pay roll No. 4.....	W. Carpenter and others, im- provement work under Stupt..	95 37
37	Toledo Press Co.....	Publishing "Notice to Contract- tors," 6 mile dam.....	5 40
38	Columbus Press	Publishing "Notice to Contract- tors," 6 mile dam.....	4 72
39	Beacon Journal Co.....	Publishing "Notice to Contract- tors," 6 mile dam.....	7 90
40	Enquirer Co.	Publishing "Notice to Contract- tors," 6 mile dam.....	3 93
41	Engineering News Co....	Publishing "Notice to Contract- tors," 6 mile dam.....	19 20
42	Commercial Printing Co...	Printing and binding specifica- tions, 6 mile dam.....	19 00
43	Williams Foundry Co....	Date letters for Akron locks....	2 00
44	Akron Democrat Co.....	Publishing "Notice to Contract- tors," Walhonding dam.....	7 90
45	W. G. Johnston.....	Services negotiating lands for reservoir—on acct.	100 00
46	Harter & Milar.....	Hardware-improvement work com.	6 15
47	Hankey Lumber Co.....	Lumber for Mud Run culvert....	243 71
48	A. H. Sawyer.....	One month's services.....	125 00
	Total for month.....	.....	\$16,731 30
November, 1906.			
1	P. T. McCourt.....	Estimate No. 4, Akron Locks....	\$2,609 84
2	P. T. McCourt.....	Livery engineer's office, Akron...	18 00
3	S. W. Parshall.....	EEstimate No. 3, Akron Locks..	994 37

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
4	S. W. Parshall.....	Allowance on account extra work.	200 00
5	McGarry & McGowan.....	Estimate No. 4, Akron Locks....	790 65
6	J. J. McGowan.....	Estimate No. 2, Mud Run culvert.	516 70
7	J. N. Kissner.....	Estimate No. 3, Lock 16, Tren- ton, O.	1,795 50
8	Atlas Portland Cement Co.	Estimate No. 3 cement deliveries..	2,785 05
9	U. G. Frederick Lum. Co.	Lumber for bridge at lock 1.....	46 43
10	Alantic Foundry Co.....	Castings for lock gates.....	26 88
11	Peterson & Wright.....	Cement furnished contractors at Akron locks	117 60
12	Peterson & Wright.....	Cement furnished Mud Run cul- vert	54 50
13	E. C. Hovey.....	Gravel and limestone for Mud Run culvert	48 00
14	Hankey Lumber Co.....	Lumber for stakes for Gehres' reservoir survey	4 00
15	American Sewer Pipe Co..	Sewer pipe and freight for Mud Run culvert	240 54
16	Samuel Palmer	Hauling gravel Mud Run culvert.	8 00
17	Williams Foundry Co.....	Date letters for Akron locks.....	2 40
18	Ben Albertson	Board bill, Gehres' survey and B. P. W.	23 25
19	H. Myers	Repairs of tools state gang work, lock 1	5 00
20	Jackson Bros.	Livery for Gehres' survey of res- ervoir locks	10 50
21	Hardware Supply Co.....	Bolts for lock work.....	1 08
22	Williams Foundry Co.....	Cost date letters for locks.....	4 00
23	W. A. Karns.....	Publishing "Notiee to Contract- ors," Walhonding dam.....	6 50
24	American Contr. Pub. Co..	Publishing "Notice to Contract- ors," Walhonding dam.....	9 72
25	John Englander	Foundation timber for lock 10....	140 00
26	Kraus-Kern Co.	Labor and material on gas pipe line, office lock 1.....	30 09
27	M. O'Neill Co.....	Supplies for engineer's office.....	11 58
28	W. G. Johnston.....	Allowance agent negotiating pur- chase Res. land.....	100 00
29	J. A. Hanlon.....	Expense account, November.....	85 27
30	Pay roll No. 1.....	J. A. Hanlon and others.....	971 00
31	Pay roll No. 2.....	J. A. Gehres and others.....	232 50
32	Pay roll No. 3.....	John Wilson and others.....	180 50
33	Pay roll No. 4.....	George Wallace and others.....	21 00
	Total for month.....	.....	\$12,090 45

ABSTRACT OF MONEY PAID.

By Charles Cooper, Superintendent Sub-Division No. 1, Grand Division No. 3,
Miami and Erie Canal, for Material and Labor for the Maintenance and
Repair of the Public Works.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>December, 1905.</i>			
1	W. A. Gregg.....	Expense account	\$2 00
2	J. W. Sullivan.....	Expense account	2 00
3	E. C. Booth.....	Expense account	2 30
4	Charles Cooper	Expense account	59 15
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	23 50
9	Henry F. Eyler.....	Feeding state boat team No. 2, etc.	21 50
10	Cincinnati Bell Tel. Co....	Telephone for canal office, Cincin- nati	21 25
11	Charles E. Perkins.....	Travelling expenses as chief engr.	8 00
12	F. W. Schaub.....	Messenger services	10 50
13	Bertha A. Young.....	Typewriting services	15 75
	Pay roll of officers.....	.....	554 17
	Pay roll No. 1.....	.....	207 50
	Pay roll No. 2.....	.....	158 48
	Pay roll No. 3.....	.....	50 00
	Total for month.....	.....	\$1,158 44
<i>January, 1906.</i>			
1	W. A. Gregg.....	Expense account	\$1 55
2	J. W. Sullivan.....	Expense account	1 40
3	E. C. Booth.....	Expense account	1 47
4	Charles Cooper	Expense account	65 95
5	J. W. Sullivan.....	Rent for canal collector at Lock- land	8 34
6	James Aylward	Rent for locktender at Lockland....	8 00
7	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	23 00
9	Henry F. Eyler.....	Feeding state boat team No. 2, etc.	26 25
10	Kohmescher & Co.....	Rubber boots, coat and hat.....	11 25
11	Cincinnati Traction Co.....	Labor and material.....	9 92
12	Samuel Bachtell	Travelling expenses as asst. engr..	8 50
13	Charles E. Perkins	Travelling expenses as chief engr.	8 30
14	J. S. Mosgrove, Agt.....	Bonding services	21 60
15	W. H. McClintock.....	Travelling expenses as secretary..	10 00
16	F. W. Schaub.....	Messenger service	6 66
	Pay roll of officers.....	.....	509 17
	Pay roll No. 1.....	.....	167 25
	Pay roll No. 2.....	.....	97 25
	Pay roll No. 3.....	.....	75 00

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
	Pay roll No. 4.....		50 00
	Total for month.....		\$1,116 86
	<i>February, 1906.</i>		
1	W. A. Gregg.....	Expense account	\$1 82
2	J. W. Sullivan.....	Expense account	1 20
3	E. C. Booth.....	Expense account	1 47
4	Charles Cooper	Expense account	61 25
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender, Crescentville.	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	22 60
9	Henry F. Eyler.....	Feeding state boat team No. 2, etc.	23 05
10	Cin. & Sub. Bell Tel. Co....	Telephone collector's office, Lockland	7 45
11	John Muller	Coal	3 75
12	Miamisburg Lumber Co....	Lumber	24 60
13	Cinti. & Sub. Be... Tel. Co..	Telephone	16 24
14	Charles E. Perkins.....	Travelling expenses as chief engr.	8 00
15	A. H. Sawyer.....	Services rendered	12 50
	Pay roll of officers.....		509 17
	Pay roll No. 1.....		167 25
	Pay roll No. 2.....		92 00
	Pay roll No. 3.....		75 00
	Pay roll No. 4.....		50 00
	Total for month.....		\$1,099 69
	<i>March, 1906.</i>		
1	W. A. Gregg.....	Expense account	\$4 08
2	J. W. Sullivan.....	Expense account	1 20
3	E. C. Booth.....	Expense account	2 10
4	Charles Cooper	Expense account	61 87
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender at Crescentville	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	22 90
9	Henry F. Eyler	Feeding state boat team No. 2, etc.	22 65
10	John H. Class.....	Blacksmithing	1 95
11	Mrs. August Harm.....	Blacksmithing	3 35
12	Charles E. Perkins.....	Travelling expenses as chief engr..	9 00
13	Charles W. Diehl.....	Services rendered	8 00
	Pay roll of officers.....		509 17
	Pay roll No. 1.....		167 25
	Pay roll No. 2.....		125 00
	Pay roll No. 3.....		75 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
	Pay roll No. 4.....		50 00
	Total for month.....		\$1,085 86
<i>April, 1906.</i>			
1	W. A. Gregg.....	Expense account	\$1 00
2	J. W. Sullivan.....	Expense account	2 95
3	E. C. Booth.....	Expense account	3 40
4	Charles Cooper	Expense account	61 50
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	23 90
9	Henry F. Eyer.....	Feeding state boat team No. 2, etc.	24 05
10	Frank Dine	Stamps, day book and expressage.	14 15
11	Charles E. Denny.....	Lumber	16 28
12	John Muller	Coal	26 25
13	Review Publishing Co.....	Printing	2 50
14	John Muller	Cement	45 15
15	James K. Aylward.....	Blacksmithing	15 55
16	Emil H. Guth.....	Blacksmithing	12 20
17	Cin. Bell. Tel. Co.....	Collector's office at Cincinnati...	15 00
18	John Rebor	Harness	10 60
19	John S. Spaerl.....	Hardware	6 73
20	Samuel Bachtell	Travelling expenses as asst. engr..	8 85
21	W. E. Thompson.....	Travelling expenses as secretary..	10 75
22	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
23	Fred R. Smith.....	Livery	49 50
24	J. W. Gorman.....	Labor	3 50
	Pay roll of officers.....		509 17
	Pay roll No. 1.....		247 75
	Pay roll No. 2.....		150 62
	Pay roll No. 3.....		75 00
	Pay roll No. 4.....		50 00
	Total for month.....		\$1,423 69
<i>May, 1906.</i>			
1	W. A. Gregg.....	Expense account	\$2 51
2	I. W. Sullivan.....	Expense account	1 90
3	E. C. Booth.....	Expense account	4 20
4	Charles Cooper	Expense account	63 80
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
8	Fred Blursch	Feeding state boat team No. 1, etc.	24 10
9	Cin. Bell. Tel. Co.....	Telephones at Lockland.....	22 27

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
10	J. W. Gorman.....	Teaming and labor.....	14 75
11	Emil H. Guth.....	Blacksmithing.....	9 45
12	J. R. Skinner.....	Blacksmithing.....	3 05
13	John Heuermann.....	Sacks.....	1 25
14	Hamilton Supply Co.....	Supplies for dredge No. 6.....	10 29
15	Frank Koehler.....	Hardware.....	58 80
16	Charles Cooper.....	Livery.....	82 75
17	Charles E. Perkins.....	Travelling expenses as chief engr..	10 00
18	C. B. Urischel.....	Supplies furnished.....	10 14
19	H. F. Eyer.....	Keeping.....	20 00
	Pay roll of officers.....		534 16
	Pay roll No. 1.....		329 48
	Pay roll No. 2.....		75 00
	Pay roll No. 3.....		37 03
	Pay roll No. 4.....		317 00
	Total for month.....		\$1,654 27
June, 1906.			
1	Fred Maag.....	Expense account.....	\$2 60
2	E. C. Booth.....	Expense account.....	2 60
3	J. W. Sullivan.....	Expense account.....	2 60
4	R. V. Denny.....	Expense account.....	3 85
5	Charles Cooper.....	Expense account.....	66 55
6	Fred Blursch.....	Feeding state boat team No. 1, etc.	25 20
7	Henry F. Eyer.....	Feeding state boat team No. 2, etc.	21 65
8	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
9	James Aylward.....	Rent for locktender at Lockland..	8 00
10	J. W. Gorman.....	Rent for locktender at Crescent- ville.....	6 00
11	Frank Koehler.....	Hardware.....	62 75
12	James Bohmer.....	Hardware, plumbing and labor....	2 40
13	Charles Cooper.....	Horse and buggy.....	20 00
14	John Class.....	Blacksmithing.....	3 25
15	Joseph T. Kaline.....	Blacksmithing.....	6 00
16	Carrie Strawser.....	Hire wagon.....	5 00
17	Levy & White.....	Desk and chair.....	30 00
18	Levy & White.....	Key and lock.....	75
19	Cin. Sub. Bell Tel. Co.....	Collector's office at Cincinnati....	15 00
20	Thomas Walsh.....	Labor.....	33 25
21	Lockland Lumber Co.....	Lumber.....	11 20
22	John Snyder.....	Teams.....	273 08
23	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....		579 17
	Pay roll No. 1.....		304 74
	Pay roll No. 2.....		283 99
	Pay roll No. 3.....		139 08
	Pay roll No. 4.....		75 00
	Total for month.....		\$2,007 05

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>July, 1906.</i>			
1	Fred Maag	Expense account	\$2 00
2	J. W. Sullivan.....	Expense account	1 20
3	E. C. Booth.....	Expense account	2 40
4	R. V. Denny.....	Expense account	8 80
5	Charles Cooper	Expense account	60 70
6	Charles Cooper	Use of horse.....	20 00
7	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
8	James Aylward	Rent for locktender at Lockland..	8 00
9	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
10	Fred Blursch	Feeding state boat team No. 1, etc.	32 00
11	Henry F. Eyer.....	Feeding state boat team No. 2, etc.	30 30
12	F. E. Marlin.....	Blacksmithing	2 65
13	W. T. Johnson.....	Hardware	1 79
14	Emil H. Guth.....	Blacksmithing	6 05
15	J. & M. Rosenberger.....	Papering office at Cincinnati.....	23 00
16	W. H. Mullally.....	Papering state house, Cincinnati.	6 10
17	Mrs. Mollie Seely.....	Meals and lodging.....	73 50
18	Fred R. Smith.....	Teams, gravel and cement.....	110 30
19	Fred R. Smith.....	Livery	22 50
20	Charles E. Denny.....	Lumber	307 57
21	Morrison & Snodgrass Co.	Lumber	3 00
22	Grove & Weber Co.....	Lumber	13 98
23	Roth & Co.....	Hardware	4 95
24	C. C. Fouts.....	Hardware	31 14
25	John Ryling & Son.....	Duck for boat No. 1.....	19 60
26	Brown & Varney.....	Machine work	16 45
27	Kohmescher & Co.....	Rubber boots	22 00
28	James Heuermann	Sacks	1 25
29	Fox Paper Co.....	Lumber and labor.....	74 45
30	Thomas S. Harkness Co...	Repairs on office, Cincinnati.....	5 25
31	Bevis & Shortte.....	Cutting rivets from girder.....	17 10
32	Charles Weaver	Watching dredge and boarding boat	54 25
33	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....		534 16
	Pay roll No. 1.....		513 87
	Pay roll No. 2.....		333 61
	Pay roll No. 3.....		75 00
	Pay roll No. 4.....		210 86
	Total for month.....		\$2,679 12
<i>August, 1906.</i>			
1	Fred Maag	Expense account	\$2 40
2	J. W. Sullivan.....	Expense account	1 10
3	E. C. Booth.....	Expense account	2 40
4	Charles Cooper	Expense account	61 90
5	J. W. Sullivan.....	Rent for collector at Lockland....	8 34
6	James Aylward	Rent for locktender at Lockland..	8 00
7	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
8	Charles Cooper	Horse and buggy.....	20 00
9	Fred Blursch	Feeding state boat team No. 1, etc.	28 80
10	Henry F. Eyler.....	Feeding state boat team No. 2, etc.	24 00
11	Village of Lockland.....	Use of water.....	30 00
12	McIlvain & Spiegel.....	Iron work	24 65
13	Sorg Branch	Sacks	17 50
14	Cin. & Sub. Bell Tel. Co..	Telephone at Lockland.....	9 50
15	Cin. & Sub. Bell Tel. Co..	Telephone at supt.'s residence....	15 85
16	Fred R. Smith.....	Teaming and livery.....	31 50
17	Peter Funk	Feeding teams and lodging.....	7 50
18	Charles Weaver	Watching dredge No. 6.....	54 25
19	Albert Hebenstreet	Work at Amanda aqueduct.....	114 50
20	Albert Hebenstreet	Lumber	80 48
21	Kuhlman Hardware Co....	Hardware	50
22	Frank Koehler	Hardware	29 05
23	John Snyder	Teaming	180 00
24	John H. Class.....	Blacksmithing	75
25	Samuel Bachtell	Travelling expenses as asst. engr..	3 15
26	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
27	R. V. Denny.....	Carpenter work	62 50
	Pay roll of officers.....		544 16
	Pay roll No. 1.....		459 34
	Pay roll No. 2.....		349 95
	Pay roll No. 3.....		176 74
	Total for month.....		\$2,369 81
<i>September, 1906.</i>			
1	J. W. Sullivan.....	Expense account	\$1 00
2	E. C. Booth.....	Expense account	1 10
3	Charles Cooper	Expense account	61 30
4	Charles Cooper	Horse and livery.....	20 00
5	Fred Blursch	Feeding state boat team No. 1, etc.	24 20
6	Henry F. Eyler.....	Feeding state boat team No. 2, etc.	31 25
7	J. W. Sullivan.....	Rent for collector at Lockland...	8 34
8	James Aylward	Rent for locktender at Lockland..	8 00
9	J. W. Gorman.....	Rent for locktender at Crescent- ville	6 00
10	Emil H. Guth.....	Blacksmithing	10 80
11	John Sawyer	Labor, watching dredge No. 4....	52 50
12	William Sheely	Washing dredge No. 6.....	18 26
13	Fox Paper Co.....	Repairing state boats Nos. 1 and 2	101 40
14	F. C. Schwartz.....	Supplies furnished dredge No. 6..	3 55
15	Fred R. Smith.....	Teaming and livery.....	61 70
16	Frank Martin	Labor, lumber and horse and wa- gon	64 50
17	Fred Steiner	Board and lodging.....	8 75
18	R. V. Denny.....	Labor	10 00
19	Charles Harms	Labor	17 50
20	George Rupp	Labor	17 50
21	C. E. Perkins.....	Travelling expenses as chief engr..	15 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
22	Fred Smith	Livery	49 50
23	J. W. Gorman.....	Labor performed	3 50
24	L. Schreiber & Sons.....	Iron	635 04
25	Samuel Bachtell	Traveling expenses as asst. engr.	8 00
	Pay roll of officers.....		544 16
	Pay roll No. 1.....		429 87
	Pay roll No. 2.....		433 62
	Total for month.....		\$2,646 34
<i>October, 1906.</i>			
1	E. C. Booth.....	Expense account	\$2 00
2	J. W. Sullivan.....	Expense account	80
3	Charles Cooper	Expense account	61 60
4	Charles Cooper	Feeding and stabling horse.....	20 00
5	J. W. Sullivan.....	Rent for canal collector, Lockland.....	8 34
6	James Aylward	Rent for lock tender, Lockland....	8 00
7	J. W. Gorman.....	Rent for lock tender, Crescentville	6 00
8	Fred Blursch	Feeding state boat team No. 1 and car fare for men.....	27 20
9	Henry F. Eyler.....	Feeding state boat team No. 2 and car fare for men.....	23 95
10	Charles Haas	Watching flume at Lesourdsville.....	62 00
11	John Sawyer	Watching dredge No. 4 at Miamisburg	54 25
12	Cincinnati Bell Tel. Co.....	Telephone for collector's office, Cincinnati	15 75
13	A. Wuettisbach	Repairing collector's office, Cincinnati	20 65
14	Frank Koehler	Hardware	28 09
15	F. M. Martin.....	Work on Lesourdsville aqueduct..	80 39
16	Charles E. Denney.....	Lumber	87 92
17	Allegheny Chemical Co....	Boiler compound	36 02
18	Pittsburg Chemical Co....	Oil	14 95
19	Philip Cary Mfg. Co.....	Tar roofing and supplies for dredge No. 6.....	21 00
20	J. W. Gorman.....	Labor	6 00
21	C. E. Perkins.....	Traveling expenses as chief engr.	15 00
22	C. C. Fouts.....	Hardware	22 03
	Pay roll of officers.....		544 16
	Pay roll No. 1.....		397 49
	Pay roll No. 2.....		121 62
	Pay roll No. 3.....		50 00
	Total for month.....		\$1,735 21
<i>November, 1906.</i>			
1	Fred Maag	Expense account	\$5 85
2	E. C. Booth.....	Expense account	2 75

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
3	J. W. Sullivan.....	Expense account	1 70
4	Charles Cooper	Expense account	57 30
5	Charles Cooper	Furnishing and feeding horse....	20 00
6	Cincinnati & Sub. Bell Telephone Co.	Telephone for collector's office at Lockland	8 35
7	J. W. Sullivan.....	Rent for canal collector, Lockland.	8 34
8	James Aylward	Rent for lock tender, Lockland..	8 00
9	J. W. Gorman.....	Rent for lock tender, Crescentville	6 00
10	Emil H. Guth.....	Blacksmithing	11 85
11	Fred Blursch	Feeding state boat team No. 1 and car fare for men.....	29 20
12	Henry F. Eyler.....	Feeding state boat team No. 2 and care fare for men.....	27 55
13	John Sawyer	Watching dredge No 4.....	52 50
14	Fred R. Smith.....	Livery and teaming.....	44 90
15	A. Ritter	Blacksmithing	4 15
16	Charles E. Denney.....	Supplies for lock house.....	1 65
17	Charles Haas	Watching flume	24 00
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	544 16
	Pay roll No. 1.....	.....	330 12
	Pay roll No. 2.....	.....	50 00
	Total for month.....	.....	\$1,280 37

ABSTRACT OF MONEY PAID.

By Charles Cooper, Superintendent Sub-Division No. 1, Grand Division No. 3, Miami and Erie Canal, for Material and Labor for the Repair of Locks between Cincinnati and Dayton.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>January, 1906.</i>	
1	J. W. Montgomery.....	Lumber	\$303 48
2	T. S. Voorhees.....	Sand and teaming.....	3 00
3	Emil H. Guth.....	Blacksmithing	17 03
	Total for month.....	.....	\$323 51

ABSTRACT OF MONEY PAID.

By John O'Connor, Superintendent Division No. 3, Sub-Division No. 2, Miami and Erie Canal, for Material and Labor for the Maintenance and Repair of the Public Works.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>December, 1905.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 90
2	Frank C. Davis.....	Expenses as collector.....	2 85
3	Lincoln Evans	Keeping team and expenses.....	24 80
4	Edward McConnell	Keeping team and expenses	34 50
5	Central Union Tel. Co.....	For collector's office at Dayton..	2 50
6	M. Morgan	Livery	9 50
7	Amer. Wagon Stock Mfg. Co.	Lumber for repairing lock gates..	22 08
8	The John Rouzer Co.....	Carpenter work on dredge 4.....	74 70
9	John M. O'Connor.....	Rent of canal boat.....	36 00
10	The Dayton Globe Iron Works	Repairs for dredge 4.....	12 75
11	Makley & Ryder	Horse shoeing for Dayton team..	3 00
12	John Bushnell	Horse shoeing for Piqua team....	3 10
13	Piqua Home Tel. Co.....	Telephone for foreman, 3 mos...	3 75
14	August Wise	Lumber for dam.....	10 23
15	Willman Bros.	Sacks	3 34
16	John O'Connor	Expenses as supt.....	59 70
17	Central Union Tel. Co....	Rent of telephone for supt.'s of- fice	5 00
18	J. B. Conners Coal Co.....	Coal for dredge 4.....	51 08
19	Charles E. Perkins.....	Traveling expenses as chief engr.	12 00
20	W. H. McClintock.....	Traveling expenses as secretary..	15 00
21	C. M. Gracey.....	Typewriting services	1 25
	Pay roll of officers.....	.....	472 66
	Pay roll No. 1.....	.....	341 63
	Pay roll No. 2.....	.....	191 89
	Pay roll No. 3.....	.....	202 30
	Total for month.....	.....	\$1,600 51
<i>January, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 15
2	Frank C. Davis.....	Expenses as collector.....	3 75
3	Lincoln Evans	Keeping team and expenses.....	24 40
4	Edward McConnell	Keeping team and expenses.....	29 45
5	Central Union Tel. Co.....	Collector's office at Dayton.....	2 50
6	Huntsville Tel. Co.....	At Lewistown Reservoir	1 10
7	W. E. Clingan	Livery	1 50
8	Michael Moran	Livery	2 50
9	J. A. Clymer	Coal for dredge 4.....	2 07
10	Central Union Tel. Co....	For supt.'s office.....	3 85
11	John O'Connor	Expenses as supt.	57 90
12	Charles A. Gump.....	Material for dredge 4.....	1 07
13	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
14	F. W. Schaub.....	Messenger services	6 66

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
15	W. H. McClintock.....	Traveling expenses as secretary...	10 00
16	J. S. Mosgrove.....	Bonding services	10 80
	Pay roll of officers.....		406 66
	Pay roll No. 1.....		318 12
	Total for month.....		\$896 48
<i>February, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 30
2	Frank C. Davies	Expenses as collector.....	3 70
3	Lincoln Evans	Keeping team and expenses.....	22 90
4	Edward McConnell	Keeping team and expenses.....	29 20
5	Central Union Tel. Co.....	For supt.'s office.....	3 95
6	Central Union Tel. Co.....	For collector's office.....	3 50
7	Makley & Ryder	Shoeing for Dayton team.....	3 25
8	John O'Connor	Expenses as supt.....	58 70
9	Willman Bros.	Rubber boots	4 75
10	Huntsville Tel. Co.....	At Lewistown Reservoir	80
11	August Wise	Lumber for dams.....	69 87
12	John Bushnell	Shoeing for Piqua team.....	1 80
13	T. W. Campbell.....	Postal cards for gauge reports...	7 00
14	Samuel Bachtell	Traveling expenses as asst. engr.	5 00
15	Charles E. Perkins.....	Traveling expenses as chief engr.	12 00
	Pay roll of officers.....		406 66
	Pay roll No. 1.....		149 00
	Pay roll No. 2.....		151 58
	Total for month.....		\$937 96
<i>March, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 60
2	Frank C. Davies.....	Expenses as collector.....	2 75
3	Lincoln Evans	Keeping team and expenses.....	25 30
4	Edward McConnell	Keeping team and expenses.....	33 10
5	Central Union Tel. Co.....	Telephone for supt.....	5 30
6	Central Union Tel. Co.....	Telephone at Dayton.....	3 50
7	Piqua Home Tel. Co.....	Telephone for foreman, 3 mos...	3 75
8	M. Moran	Livery	2 00
9	John O'Connor	Expenses as supt.....	55 80
10	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
11	Charles W. Diehl.....	Services rendered	8 00
	Pay roll of officers.....		472 66
	Pay roll No. 1.....		163 00
	Pay roll No. 2.....		129 10
	Total for month.....		\$918 86

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>April, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 60
2	Frank C. Davies.....	Expenses as collector.....	6 00
3	Lincoln Evans	Keeping team and expenses.....	33 50
4	Edward McConnell	Keeping team and expenses.....	37 70
5	Central Union Tel. Co.....	Collector's office at Dayton.....	3 50
6	Charles H. Cook.....	Dressing tools and repairing wagon	6 25
7	Alex. Gebhart & Co.....	Lumber for running plank.....	10 50
8	Miami Lumber Co.....	Lumber for Oaks Creek.....	69 44
9	The Tipp Bldg. & Mfg. Co.	Lumber for dam at Oaks Creek..	72 69
10	C. L. Wood.....	Shingles at Lockington.....	31 50
11	W. F. Robbins.....	Livery at Piqua	3 50
12	B. D. Wissman.....	Livery at Minster	3 25
13	Central Union Tel. Co.....	Rent and tolls for supt.'s office...	5 45
14	John O'Connor	Expenses as supt.....	57 60
15	Wm. E. Glingman.....	Livery and wagon hire.....	24 00
16	Willman Bros.....	Sacks	3 38
17	W. E. Thompson.....	Traveling expenses as secretary..	3 35
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
19	Charles E. Perkins.....	Drawing material	1 70
20	American Surety Co.....	Bond for collectors	10 80
	Pay roll of officers.....	.....	406 66
	Pay roll No. 1.....	.....	411 86
	Pay roll No. 2.....	.....	177 05
	Total for month.....	.....	\$1,399 34
<i>May, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$6 15
2	Frank C. Davies.....	Expenses as collector.....	8 10
3	Lincoln Evans	Keeping team and expenses.....	24 40
4	Edward McConnell	Keeping team and expenses.....	30 60
5	Central Union Tel. Co.....	For supt.'s office at Dayton.....	5 35
6	Central Union Tel. Co.....	For collector's office at Dayton...	3 50
7	W. M. Whitmore.....	Coal	4 50
8	Charles A. Gump.....	Rubber boots	12 00
9	John O'Connor	Expenses as supt.....	56 30
10	Henne Bros.	Rubber boots	5 00
11	Charles H. Cook.....	Blacksmith work	3 41
12	Makley & Ryder.....	Shoeing team	3 00
13	Clem L. Kimmel.....	Nails for repair boat.....	4 60
14	W. E. Rodgers.....	Plow and harrow	33 00
15	Wood, Cox & Son.....	Hardware	17 89
16	F. E. Leatherman.....	Spikes	8 80
17	Phisher & Phillippi.....	Harness repairs	3 10
18	The Tipp Bldg. & Mfg. Co.	Lumber for running plank.....	8 32
19	C. L. Wood.....	Lumber	12 07
20	Lincoln Evans	R. R. fare.....	9 90
21	Wm. E. Glingman.....	Team	39 00
22	G. W. Lewis.....	Material for dredge boat.....	60 80
23	The Robert Hixon Co.....	Lumber at Lewistown Reservoir.	40 70
24	A. C. House.....	Sacks	10 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
25	The United Tel. Co.....	Service at Lewistown Reservoir..	1 10
26	A. O. T. Andrus.....	Livery	4 70
27	The Robert Hixon Co.....	Lumber	54 52
28	Central Union Tel. Co.....	Service at Lewistown Reservoir..	80
29	Frank J. McColloch.....	Services at Lewistown Reservoir..	25 00
30	Frank M. Stubbs.....	Boats rafting floating timber.....	30 00
31	M. Moran	Livery at Dayton.....	2 00
32	Samuel Bachtell	Traveling expenses as asst. engr.	3 00
33	Charles E. Perkins.....	Traveling expenses as chief engr.	12 50
	Pay roll of officers.....	.....	406 66
	Pay roll No. 1.....	.....	643 48
	Pay roll No. 2.....	.....	553 63
	Pay roll No. 3.....	.....	421 13
	Total for month.....	.....	\$2,564 01
<i>June, 1906.</i>			
1	Elmer Wombold	Expenses as collector at Dayton..	\$4 25
2	Frank C. Davies.....	Expenses as collector.....	8 00
3	Lincoln Evans	Keeping team and expenses as foreman	27 40
4	Edw. McConnell	Keeping team and expenses as foreman	26 85
5	Central Union Tel. Co.....	Rent and tolls for supt.'s office...	4 70
6	John Bushnell	Blacksmith work	6 00
7	The Piqua Telephone Co...	Rent for 3 mos. for foreman.....	3 75
8	S. Zolinger & Co.....	Cement	5 55
9	August Wise	Lumber for lock gates and balance beams	113 83
10	L. N. Woodcox & Son....	Hardware and rope.....	23 59
11	Samuel Avey	Freight on lumber.....	5 00
12	John O'Connor	Expenses as supt.....	58 60
13	T. D. Eichelberger.....	Cement for culvert at Oaks Creek.	15 20
14	Frank M. Stubbs.....	Piling for Lewistown reservoir bank	475 20
15	Frank M. Stubbs.....	Rent of boat rafting drift wood..	28 00
16	A. O. T. Andrus.....	Livery at Lewistown reservoir...	4 00
17	Makley & Ryder.....	Shoeing for Dayton team.....	3 00
18	Clem L. Kimmel.....	Hardware for Dayton repair boat.	7 37
19	Foster, Hegman & Co.....	Paper for Dayton lock house.....	3 60
21	The Paterson Tool Co.....	Forge for dredge No. 4.....	10 80
22	The Geo. J. Roberts Co....	Steam pump for dredge No. 4....	74 80
23	Clem L. Kimmel.....	Hardware and rope for dredge No. 4	14 88
24	Chas. H. Cook.....	Blacksmith work	2 87
25	Central Union Tel. Co.....	Rent of telephone for collector...	3 50
26	M. Moran	Livery to Miami aqueduct.....	8 00
27	Alexander Gebhart & Co...	Lumber for aqueduct wall.....	121 18
28	T. D. Eichelberger's Sons.	Cement for Miami aqueduct.....	235 60
29	Samuel Bachtell	Traveling expenses as asst. engr.	11 15
30	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
31	Leo Veit	Repairing transit for chief engr...	8 75
	Pay roll of officers.....	.....	487 66
	Pay roll No. 1.....	.....	222 87
	Pay roll No. 2.....	.....	798 70
	Pay roll No. 3.....	.....	280 25
	Total for month.....	.....	\$3,119 90
<i>July, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 15
2	Frank C. Davies.....	Expenses as collector.....	6 50
3	Lincoln Evans	Keeping team and expenses.....	33 40
4	Edward McConnell	Keeping team and expenses.....	38 40
5	Central Union Tel. Co....	For supt.'s office.....	6 70
6	Huntsville Tel. Co.....	Tolls at Lewistown Reservoir...	1 20
7	The United Tel. Co.....	Tolls at Lewistown Reservoir...	40
8	Clem L. Kimmel.....	Tools and rope.....	13 06
9	I. N. Woodcox.....	Hardware	5 78
10	Danner & O'Leary.....	Pump	6 00
11	Alex. Gebhart & Co.....	Lumber	20 00
12	D. Leonard & Son.....	Harness	35 00
13	Makley & Ryder.....	Horse shoeing	3 00
14	John Bushnell	Horse shoeing	1 60
15	F. W. Snyder.....	Blacksmith work	4 25
16	Michael Moran	Livery	7 00
17	A. O. T. Andrus.....	Livery	22 50
18	B. Wissman	Livery	1 50
19	W. F. Robbins.....	Livery	6 00
20	Frank M. Stubbs.....	Piling at Lewistown Reservoir...	457 92
21	Frank M. Stubbs.....	Rent of boats.....	16 00
22	James Burt	Making lock gates.....	75 00
23	John O'Connor	Expenses as supt.....	59 30
24	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....	.....	431 66
	Pay roll No. 1.....	.....	434 11
	Pay roll No. 2.....	.....	899 90
	Pay roll No. 3.....	.....	376 75
	Total .....	.....	\$2,982 08
<i>August, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 05
2	Frank C. Davies	Expenses as collector.....	5 05
3	Lincoln Evans	Keeping team and expenses.....	31 80
4	Edward McConnell	Keeping team and expenses.....	44 90
5	Central Union Tel. Co....	For collector's office.....	3 90
6	Central Union Tel. Co....	For collector's office.....	4 30
7	Makley & Ryder	Horse shoeing	3 00
8	Weed Supply Co.....	Snatch blocks	6 80

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
9	George Rider	Blacksmith work	2 00
10	I. N. Woodcox & Son.....	Spikes and nails.....	6 00
11	C. L. Wood.....	Lumber	15 45
12	F. E. Leatherman.....	Hardware and rope.....	6 45
13	James L. Day.....	Nails used rafting logs.....	10 05
14	Frank M. Stubbs.....	Rent of boats.....	42 00
15	Central Union Tel. Co.....	Telephone and tolls for supt.....	7 60
16	John O'Connor	Expenses as supt.....	59 50
17	Charles H. Cook.....	Blacksmith work	2 25
18	Alexander Gebhart Co.....	Lumber	80 01
19	Clem L. Kimmel.....	Tools and nails.....	19 50
20	Samuel Bachtell	Travelling expenses as asst. engr..	3 10
21	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....		431 66
	Pay roll No. 1.....		286 98
	Pay roll No. 2.....		369 50
	Total for month.....		\$1,460 85
<i>September, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$4 50
2	F. C. Davies.....	Expenses as collector.....	5 00
3	Lincoln Evans	Keeping team and expenses.....	24 90
4	Edward McConnell	Keeping team and expenses.....	28 40
5	E. Cappel	Supplies for repair boat No. 1....	24 00
6	Clem Kimmel	Tools for repair boat No. 1.....	39 35
7	Charles H. Cook.....	Repairs on plow.....	3 00
8	George Rider	Blacksmith work	3 95
9	John Bushnell	Blacksmith work	2 50
10	Frank M. Stubbs.....	Piling for Lewistown Reservoir..	103 68
11	Frank M. Stubbs.....	Boats for rafting timber.....	8 50
12	Henne Bros.	Rubber boots	16 00
13	Huntsville Tel. Co.....	Service at Lewistown Reservoir..	1 30
14	Piqua Home Tel. Co.....	Rent of telephone.....	3 75
15	Central Union Tel Co.....	Rent of telephone.....	3 59
16	Central Union Tel Co.....	Rent of telephone.....	4 15
17	Dr. W. R. Howe, V. S.....	Veterinary services	1 50
18	John O'Connor	Expenses as supt.....	59 20
19	Charles E. Perkins	Expenses as chief engr.....	15 00
	Pay roll of officers.....		497 66
	Pay roll No. 1.....		210 25
	Pay roll No. 2.....		326 50
	Total for month.....		\$1,386 59
<i>October, 1906.</i>			
1	Elmer Wombold	Expenses as collector.....	\$6 85
2	Frank C. Davies.....	Expenses as collector.....	5 05
3	Lincoln Evans	Keeping team and other expenses..	25 30

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
4	Edward McConnell	Keeping team and other expenses..	34 10
5	Central Union Tel. Co.....	Telephone for collector's office...	3 90
6	Central Union Tel. Co.....	Telephone for supt.'s office.....	5 60
7	Makeley & Ryder.....	Horse shoeing	3 40
8	Charles H. Cook.....	Making pike hooks.....	6 50
9	John Bushnell	Shoeing for Piqua team.....	1 10
10	I. N. Woodcox & Son.....	Hardware	95
11	C. L. Wood.....	Lumber for lock repairs.....	10 65
12	P. I. Hedges.....	Material for McConnell, foreman..	75
13	Slusser-McLean Co.	Castings for lock gates.....	73 17
14	A. O. T. Andrews.....	Livery at Lewistown reservoir....	4 00
15	Frank Stubbs	Earth for repairing Lewistown re- servoir bank	57 50
16	John O'Connor	Advertising canal notice.....	16 35
17	John O'Connor	Expenses as supt.....	59 65
18	Charles A. Gump.....	Rubber boots	40 50
19	John O'Connor	Rent of telephone at Dryden's lock	9 00
20	Samuel Bachtell	Travelling expenses as asst. engr..	7 55
21	C. E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....		431 66
	Pay roll No. 1.....		249 62
	Pay roll No. 2.....		642 75
	Total for month.....		\$1,710 90
<i>November, 1906.</i>			
1	Elmer Wombold	Epenses as collector.....	\$6 65
2	D. C. Statler.....	Loss of stone from boat.....	13 25
3	Lincoln Evans	Keeping team and expenses.....	28 10
4	Edw. McConnell	Keeping team and expenses.....	46 60
5	Central Union Tel. Co.....	Telephone for office of supt.....	4 60
6	J. M. Deam.....	Services as surgeon for men hurt at aqueduct	8 00
7	Clem L. Kimmel.....	Material for Evans, foreman....	90
8	Charles H. Cook.....	Making irons for pike pole.....	2 61
9	J. M. W. Cromes.....	Roofing material for lock house..	4 58
10	John O'Connor	Expenses as supt.....	59 50
11	A. O. T. Andrus.....	Livery	3 00
12	John M. O'Connor.....	Earth to raise bank at Lewistown reservoir	87 43
13	M. Hurley	Livery at Lakeview by supt.....	7 75
14	Albert Shaffer	Earth to make bank at Troy feeder	16 00
15	M. Moran	Livery at Dayton by supt.....	10 50
16	Sweetman Printing House.	Printing canal notices.....	4 00
17	Charles E. Perkins.....	Travelling expenses as chief engr..	15 00
	Pay roll of officers.....		431 66
	Pay rolls Nos. 1 & 2.....		849 51
	Total for month.....		\$1,599 64

ABSTRACT OF MONEY PAID.

By John O'Connor, Superintendent Sub-Division No. 2, Grand Division No. 3,
Miami and Erie Canal, for Material and Labor for Repairing Banks of
Lewistown Reservoir.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>January, 1906.</i>			
1	Frank M. Stubbs.....	Piling for protection of Lewistown reservoir bank	151 20
	Pay roll No. 1.....	.....	27 98
	Total for month.....	.....	\$179 18
<i>March, 1906.</i>			
1.	A. C. House.....	Lumber	\$71 89
2	James A. Marshall.....	Sacks	29 50
3	James M. Duff.....	Fodder	15 15
4	E. L. Frey.....	Rubber boots	13 25
5	The Huntsville Tel. Co....	Tolls	2 40
6	The United Tel. Co.....	Tolls	1 00
7	A. O. T. Andrus.....	Livery	3 50
8	Eliot & Compton.....	Refreshments for men at night...	3 75
9	Elmer Cox	53 meals at 25 cents each.....	13 25
	Pay roll No. 1.....	.....	149 00
	Pay roll No. 2.....	.....	101 12
	Total for month.....	.....	\$403 81
<i>April, 1906.</i>			
1	Frank M. Stubbs.....	Piling	\$432 00
2	James L. Day.....	Repairing	5 50
3	United Tel. Co.....	Telephone service	2 25
4	The Huntsville Tel. Co....	Telephone service	90
5	A. O. T. Andrus.....	Livery	6 00
6	Frank M. Stubbs.....	Rent of boats.....	29 00
7	A. C. House.....	Sacks	28 00
	Pay roll No. 1.....	.....	376 10
	Total for month.....	.....	\$879 75
<i>May, 1906.</i>			
1	James L. Day.....	Nails	\$13 22
	Total for month.....	.....	\$13 22

ABSTRACT OF MONEY PAID.

By John O'Connor, Superintendent Division No. 3, Sub-Division No. 2, Miami and Erie Canal, for Material and Labor for the Repairs of the Miami Aqueduct.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>March, 1906.</i>	
1	Huston & Cleveland.....	Miami River Aqueduct.....	\$4,750 00
	Total for month.....	.....	\$4,750 00
		<i>May, 1906.</i>	
1	M. Moran	Livery	\$13 50
	Pay roll No. 1.....	.....	113 75
	Total for month.....	.....	\$127 25
		<i>June, 1906.</i>	
	Pay roll No. 1.....	.....	\$372 75
	Total for month.....	.....	\$372 75

ABSTRACT OF MONEY PAID.

By John O'Connor, Superintendent Division No. 3, Sub-Division No. 2, Miami and Erie Canal, for Material and Labor for the Repairs of Mad River Aqueduct.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>March, 1906.</i>	
1	Clem L. Kimmel	Nails	\$10 48
	Total for month.....	.....	\$10 48

ABSTRACT OF MONEY PAID.

By H. W. Meacham, Superintendent Sub-Division No. 3, Grand Division No. 3,
Miami and Erie Canal, for Material and Labor for the Maintenance and
Repair of the Public Works.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>December, 1905.</i>			
1	The Ohio Builders' Supply Co.	Gravel and cement.....	\$35 96
2	J. L. Haney	Gravel	6 50
3	J. A. Bogart.....	Harness repairs	3 10
4	Dr. W. C. Holden.....	Services as veterinary.....	2 00
5	W. A. Moxley.....	Epenses as collector.....	9 25
6	D. H. Hancock.....	Expenses as collector and rent....	20 57
7	Toledo Home Tel Co.....	Telephone rent	15 00
8	Tod Trowbridge	Telephone rent and postage.....	2 54
9	Frank Bennett	Telephone rent and expenses.....	9 90
10	S. E. Allmon.....	Keeping team, etc.....	22 35
11	J. R. Spencer.....	Keeping team, etc.....	20 40
12	D. C. Lee.....	Livery	6 00
13	J. W. McGovney.....	Livery	6 00
14	The Morse Livery Co.....	Livery	10 75
15	Joseph Hitz	Blacksmithing	23 00
16	Bissonnett & Deibel.....	Hardware	2 00
17	Waterville Hardware Co....	Hardware	4 79
18	Dunan & Koepfer	Hardware	11 25
19	C. J. Stickney & Co.....	Lumber	8 13
20	H. W. Meacham.....	Expenses as supt.....	85 15
21	Charles E. Perkins.....	Travelling expenses as chief engr..	10 00
22	W. H. McClintock.....	Travelling expenses as secretary..	15 00
23	Bertha Young	Typewriting services	1 50
	Pay roll of officers.....	.....	669 48
	Pay roll No. 1.....	.....	368 25
	Total for month.....	.....	\$1,368 87
<i>January, 1906.</i>			
1	H. W. Myers.....	Expenses as collector.....	\$5 00
2	Central Union Tel. Co.....	Telephone rent and messages.....	9 90
3	Citizens Tel. Co.....	Telephone rent	6 00
4	United States Tel. Co.....	Telephone messages	3 00
5	Tod Trowbridge	Telephone rent	1 50
6	Wesley McDonald	Telephone rent and expenses.....	6 60
7	Frank Bennett	Telephone rent and expenses.....	4 30
8	S. E. Allmon.....	Keeping team and expenses.....	21 05
9	J. R. Spencer.....	Keeping team and expenses.....	10 30
10	George Sheperd	Livery	1 50
11	George Weadock	Livery	27 00
12	G. H. Blaker	Hardware	7 54
13	W. A. Kehnast & Co.....	Hardware	48 15
14	Charles L. Koch & Co.....	Lumber	4 22
15	H. W. Meacham.....	Expenses as supt.....	93 65
16	Charles E. Perkins.....	Expenses as chief engr.....	13 50

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
17	J. S. Mosgrove.....	Bonding services	12 60
18	W. H. McClintock.....	Travelling expenses as secretary..	10 00
19	F. W. Schaub.....	Messenger services	6 66
	Pay roll of officers.....	.....	669 48
	Pay roll No. 1.....	.....	253 25
	Total for month.....	.....	\$1,215 20
<i>February, 1906.</i>			
1	C. C. Domitio.....	Coal	\$7 25
2	S. L. Teeple.....	Services as veterinary.....	5 00
3	United States Tel. Co....	Telephone messages	2 55
4	Tod Trowbridge	Telephone rent	1 50
5	Wesley McDonald	Telephone rent	3 20
6	Frank Bennett	Expenses as foreman	5 25
7	S. E. Allmon.....	Keeping team, etc.....	20 60
8	J. R. Spencer.....	Keeping horse, etc.....	10 80
9	J. O. Sloan.....	Livery	16 00
10	Wolford & Berry.....	Hardware	4 88
11	Herman Ricker & Sons....	Lumber	7 60
12	H. W. Meacham.....	Expenses as supt.....	82 40
13	Charles E. Perkins.....	Traveling expenses as chief engr.	10 00
14	Samuel Bachtell.....	Traveling expenses as asst. engr.	5 50
	Pay roll of officers.....	.....	669 48
	Pay roll No. 1.....	.....	209 24
	Total for month.....	.....	\$1,061 25
<i>March, 1906.</i>			
1	C. C. Domitio	Coal	\$7 25
2	Jos. McGahan	Attending waste gates.....	15 00
3	H. W. Myers.....	Expenses as collector.....	3 50
4	D. H. Hancock.....	Expenses as collector and rent...	16 67
5	Toledo Home Tel. Co.....	Telephone rent	15 00
6	Tod Trowbridge	Telephone rent	1 50
7	Central Union Tel. Co....	Telephone rent and messages....	10 70
8	The Northern Ohio Tel....	Telephone rent and messages....	11 95
9	The United States Tel. Co.	Telephone messages	2 60
10	Wesley McDonald	Telephone messages and expenses.	2 20
11	Frank Bennett	Telephone messages and expenses.	3 55
12	S. E. Allmon.....	Keeping team, etc.....	32 15
13	J. R. Spencer.....	Keeping horse, etc.....	10 45
14	J. W. McGovney.....	Livery	4 50
15	William Jones	Livery	37 50
16	Johns & Good.....	Blacksmithing	13 05
17	W. H. McClintock.....	Expense at Wapakoneta dynamite case	74 50
18	W. H. McClintock.....	Expenses as secretary	25 00
19	H. W. Meacham.....	Expenses as supt.....	79 80

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
20	Charles E. Perkins.....	Traveling expenses as chief engr.	11 00
21	Charles W. Diehl.....	For services rendered.....	8 00
22	Charles W. Diehl.....	For services rendered.....	27 00
	Pay roll of officers.....	.....	669 48
	Pay roll No. 1.....	.....	150 38
	Pay roll No. 2.....	.....	86 50
	Total for month.....	.....	\$1,319 23
<i>April, 1906.</i>			
1	The M. I. Wilcox Co.....	Rope and pike pole.....	\$13 63
2	W. H. Doll.....	Paint.....	15 60
3	The Glass Block Co.....	Oil cloth and canvas.....	8 75
4	The L. Beckman Co.....	Repairing Wye level, etc.....	29 20
5	The Defiance Mach. Works	Castings.....	78 48
6	H. W. Myers.....	Expenses as collector.....	3 34
7	The Northwestern Tel. Co.	Telephone rent and messages.....	26 25
8	The Citizens' Tel. Co.....	Telephone rent.....	6 00
9	Tod Trowbridge.....	Telephone rent.....	1 50
10	Wesley McDonald.....	Telephone rent and expenses.....	4 05
11	Frank Bennett.....	Telephone rent and expenses.....	6 20
12	S. E. Allmon.....	Keeping team, etc.....	24 90
13	J. R. Spencer.....	Keeping horse, etc.....	25 35
14	Philip Grant.....	Livery.....	22 50
15	George W. Weadock.....	Livery.....	33 00
16	Kollsmith Bros.....	Blacksmithing.....	16 70
17	L. Archambeault.....	Blacksmithing.....	34 60
18	Dunen & Koeper.....	Hardware.....	8 21
19	St. Marys Planing Mills....	Lumber.....	9 00
20	William Mackenbach.....	Lumber and cement.....	69 60
21	H. W. Meacham.....	Expenses as supt.....	89 30
22	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
23	E. L. Stallkamp.....	For funds advanced.....	39 94
24	E. E. Carter.....	For funds advanced.....	113 58
25	H. M. Davies.....	For funds advanced.....	80 76
26	C. J. Daoust.....	For funds advanced.....	34 40
27	W. O. Smith.....	For funds advanced.....	3 00
28	C. V. Backus.....	For funds advanced.....	17 25
29	T. E. Vanaetaker.....	For funds advanced.....	4 83
30	E. Maehlman.....	For funds advanced.....	14 40
	Pay roll of officers.....	.....	669 48
	Pay roll No. 1.....	.....	321 12
	Pay roll No. 2.....	.....	269 00
	Total for month.....	.....	\$2,108 92
<i>May, 1906.</i>			
1	The Defiance Mach. Works.	Castings.....	\$52 32
2	R. B. Anderson.....	Expenses in trial of L. L. Sheely.	30 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
3	The L. Beckman Co.	Tracing cloth, etc.	12 10
4	Tug Dan W. Miller.	Cleaning lock No. 52.	24 00
5	United States Tel. Co.	Telephone messages	1 35
6	Tod Trowbridge	Telephone rent	1 50
7	Wesley McDonald	Telephone rent and messages.	2 60
8	Frank Bennett	Expenses as foreman	2 85
9	S. E. Allmon.	Keeping team, etc.	30 45
10	J. R. Spencer.	Keeping team, etc.	20 35
11	S. G. Floyd.	Livery	2 00
12	George W. Weak.	Livery	6 00
13	J. P. Sautler.	Livery	6 75
14	John Noffsinger	Blacksmithing	3 00
15	Jos. Hitz	Blacksmithing	90 05
16	M. L. Haviland.	Hardware	1 01
17	Dunan & Koep.	Hardware	4 25
18	The W. A. Kuhlman Co.	Hardware	139 40
19	H. B. Teuzer Co.	Lumber	2 27
20	Wm. Peter, Estate	Lumber	3 52
21	The MacLaren & Sprague Co.	Lumber	10 67
22	W. T. Hubbard.	Lumber	30 24
23	Blade Printing & Paper Co.	Office files	98 05
24	H. W. Meacham.	Expenses as supt.	69 55
25	C. E. Perkins.	Traveling expenses as chief engr.	15 00
	Pay roll of officers.		694 48
	Pay roll No. 1.		421 37
	Pay roll No. 2.		436 75
	Total for month.		\$2,211 88
June, 1906.			
1	P. E. Sweet.	Halters	\$4 75
2	A. M. Minsel.	Wall paper	6 80
3	Levi Shock	Labor at lock No. 33.	10 00
4	S. A. Thomas.	Labor at Otsego.	15 00
5	Jos. McGahan	Labor at Auglaize River Aqueduct	15 00
6	H. W. Myers.	Expenses as collector.	3 20
7	D. H. Hancock.	Expenses as collector and rent.	19 03
8	Jos. A. Claypool.	Expenses as collector and rent.	35 57
9	The United States Tel. Co.	Telephone messages	95
10	Central Union Tel. Co.	Telephone rent and messages.	10 30
11	Toledo Home Tel. Co.	Telephone rent	15 00
12	Tod Trowbridge	Telephone rent	1 50
13	Wesley McDonald	Telephone rent and expenses.	2 80
14	Frank Bennett	Expenses as foreman.	3 60
15	S. E. Allmon.	Keeping team, etc.	24 80
16	J. R. Spencer.	Keeping team, etc.	20 75
17	Bissonnett & Diebel.	Hardware	3 95
18	W. A. Kehnast Co.	Hardware	5 34
19	William Peter Estate	Lumber	1 50

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
20	W. Hellum	Lumber	21 83
21	John A. Aspacher & Co.	Lumber	194 88
22	Theisen & Hildred	Lumber	256 06
23	H. W. Meacham	Expenses as supt.	55 80
24	Charles E. Perkins	Traveling expenses as chief engr.	15 00
	Pay roll of officers		684 48
	Pay roll No. 1		378 75
	Pay roll No. 2		296 50
	Pay roll No. 3		128 75
	Total for month		\$2,231 89
<i>July, 1906.</i>			
1	The M. L. Wilcox Co.	Oakum, paint, etc.	\$25 68
2	King & Williams	Paint	9 10
3	A. L. Fisher	Crushed stone	4 83
4	C. C. Domitio	Straw	70
5	W. T. Remlinger	Wall paper and paint	3 80
6	Defiance Mach. Works	Castings	209 28
7	The L. Beckman Co.	Engineer's supplies	10 50
8	A. E. Shaffer	Cutting weeds	27 75
9	H. W. Myers	Expenses as collector	2 65
10	United States Tel. Co.	Telephone messages	1 50
11	Citizens Tel. Co.	Telephone rent	6 00
12	Northern Ohio Tel. Co.	Telephone rent	8 30
13	Tod Trowbridge	Telephone rent	1 50
14	Wesley McDonald	Telephone rent and expenses	3 50
15	Frank Bennett	Expenses as foreman	5 80
16	S. E. Allmon	Keeping team, etc.	39 70
17	J. R. Spencer	Keeping team, etc.	28 80
18	George W. Weadock	Livery	29 00
19	John Walter	Blacksmithing	6 15
20	Joseph Hitz	Blacksmithing	7 75
21	S. A. Johns	Blacksmithing	31 25
22	Dunan & Koepfer	Hardware	11 42
23	Ulrich & Sons	Hardware	15 15
24	Bissonett & Diebel	Hardware	20 45
25	Delphos Hardware Co.	Hardware	72 94
26	C. W. Schmehl	Lumber	11 57
27	Wm. Mackenbach	Lumber	11 74
28	H. W. Meacham	Expenses as supt.	69 35
29	Charles E. Perkins	Traveling expenses as chief engr.	15 00
	Pay roll of officers		684 48
	Pay roll No. 1		538 66
	Pay roll No. 2		544 50
	Total for month .....	.....*	\$2,458 80

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
<i>August, 1906.</i>			
1	The Defiance Mach. Works	Castings	\$78 48
2	C. C. Domitio.....	Straw	1 05
3	The L. Beckman Co.....	Engineer's supplies	8 50
4	H. W. Myers.....	Expenses as collector.....	4 25
5	The U. S. Telephone Co...	Telephone messages	2 20
6	Tod Trowbridge	Telephone rent	1 50
7	August Bolmer	Labor mowing weeds.....	14 00
8	S. Gallaspie	Labor mowing weeds.....	18 00
9	W. F. Smith	Labor mowing weeds.....	30 00
10	Wesley McDonald	Expense collecting boat tax, etc..	7 78
11	Frank Bennett	Expenses as foreman.....	3 65
12	J. R. Spencer.....	Keeping team, etc.....	26 80
13	S. E. Allmon.....	Keeping team, etc.....	32 00
14	Wolford & Berry.....	Hardware	12 08
15	W. A. Kuhlman & Co....	Hardware	96 72
16	W. A. Reynolds.....	Lumber	5 00
17	H. W. Meacham.....	Expenses as supt.....	68 65
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	684 48
	Pay roll No. 1.....	.....	260 67
	Pay roll No. 2.....	.....	405 50
	Total for month.....	.....	\$1,776 31
<i>September, 1906.</i>			
1	M. B. Gorman.....	Sewer pipe	\$42 40
2	F. M. Oakes.....	Sand	12 00
3	A. M. Minsel.....	Wall paper and lime.....	8 30
4	Miller Bros.....	Rubber boots	11 50
5	Franklin Printing Co.....	Stationery	10 00
6	F. E. Jones.....	Cord wood	3 50
7	H. W. Myers.....	Cord wood	14 00
8	J. J. Carson.....	Straw and hauling.....	10 00
9	Joseph McGahan	Attending waste-gates	15 00
10	Stephen Thomas	Labor on canal banks at Otsego..	15 00
11	Joseph A. Claypool	Expenses as collector and rent....	21 16
12	D. H. Hancock.....	Expenses as collector and rent....	20 23
13	H. W. Myers.....	Expenses as collector.....	1 84
14	The U. S. Telephone Co...	Telephone messages	2 50
15	Toledo Home Tel. Co....	Telephone rent	15 00
16	Central Union Tel. Co....	Telephone rent and messages.....	13 45
17	Tod Trowbridge	Telephone rent	1 50
18	Wesley McDonald	Telephone rent and expenses	6 17
19	S. E. Allmon.....	Keeping team and expenses.....	31 01
20	J. R. Spencer.....	Keeping team and expenses.....	22 75
21	Frank Bennett	Expenses as foreman.....	8 22
22	Dunan & Koeper	Hardware	12 50
23	Herman Ricker & Sons....	Lumber	7 60
24	William Mackenbach	Lumber	13 82
25	J. T. Horine.....	Lumber	82 74
26	Cheney Lumber Co.....	Lumber	238 43

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
27	H. W. Meacham.....	Expenses as supt.....	54 80
28	C. E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	657 81
	Pay roll No. 1.....	.....	503 87
	Pay roll No. 2.....	.....	334 75
	Total for month.....	.....	\$2,206 85
<i>October, 1906.</i>			
1	The Defiance Mach Wks....	Castings, etc.	\$29 95
2	Harley & Whitaker.....	Bags	9 38
3	D. Armstrong	Linoleum,	13 33
4	Schneider Bros.	Rent of engine, etc.....	37 00
5	Schneider Bros.	Centrifugal pump	175 00
6	Lewis Overle	Stone	69 40
7	Stollburg & Parks.....	Office desk	40 00
8	W. C. Holden.....	Services as veterinary.....	5 00
9	The Harley Shoe Store....	Rubber boots	5 00
10	R. H. Armstrong.....	Rubber boots	16 00
11	The U. S. Telephone Co....	Telephone messages	2 10
12	Tod Trowbridge	Telephone rent	1 50
13	Wesley McDonald	Telephone rent, etc.....	3 05
14	H. W. Myers.....	Expenses as collector.....	3 95
15	S. E. Allmon.....	Keeping team, etc.....	29 26
16	J. R. Spencer.....	Keeping team, etc.....	21 75
17	Frank Bennett	Expenses as foreman.....	7 53
18	Dunan & Koeper.....	Hardware	15 69
19	W. A. Kuhlman & Co.....	Hardware	35 53
20	Wm. Mackenbach	Lumber	13 76
21	Herman Ricker & Sons....	Lumber	28 36
22	H. W. Meacham.....	Expenses as supt. of repairs.....	57 80
23	F. W. Harms.....	Use of boat	24 00
24	E. G. King.....	Use of boat.....	53 32
25	C. E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....	.....	584 48
	Pay roll No. 1.....	.....	679 05
	Pay roll No. 2.....	.....	382 85
	Total for month.....	.....	\$2,358 04
<i>November, 1906.</i>			
1	Herman Ricker & Sons....	Sewer pipe	\$70 03
2	Schulien & Roth.....	Cement	29 06
3	E. E. Rower.....	Sand	13 84
4	H. W. Myers.....	Expenses as collector.....	7 39
5	The U. S. Telephone Co....	Telephone messages	50
6	Northern Ohio Tel. Co....	Telephone rent	6 30
7	Tod Trowbridge	Telephone rent	1 50
8	Wesley McDonald	Telephone rent, etc.....	3 55

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
9	S. E. Allmon.....	Expenses as foreman and keeping team	- 24 25
10	J. R. Spencer.....	Expenses as foreman and keeping team	24 85
11	Frank Bennett	Expenses as foreman.....	3 40
12	George W. Weadock.....	Livery	55 00
13	J. W. McGovney.....	Livery	56 90
14	L. Archambeault	Blacksmithing	3 50
15	H. B. Tenzer Co.....	Lumber	7 43
16	Thiesen & Hildred.....	Lumber	327 63
17	H. W. Meacham.....	Expenses as supt. of repairs.....	53 05
18	Charles E. Perkins.....	Traveling expenses as chief engr.	15 00
	Pay roll of officers.....		584 48
	Pay roll No. 1.....		501 75
	Pay roll No. 2.....		306 00
	Total for month.....		\$2,095 41

ABSTRACT OF MONEY PAID.

By H. W. Meacham, Superintendent Sub-Division No. 3, Grand Division No. 3, Miami and Erie Canal, for Maintenance and Labor for Repairs at Grand Reservoir.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>March, 1906.</i>	
1	The Bellefontaine Stone Co.	Stone	\$30 64
	Pay roll No. 1.....		13 50
	Total for month.....		\$44 14
		<i>August, 1906.</i>	
1	William Hamm	Driving piling at bulk-head.....	\$108 00
2	William Swartz	Labor	6 00
3	Charles Marshall	Labor	1 50
4	Thomas Carper	Labor	1 50
5	John Hein	Livery used in tagging boats, etc.	15 50
	Total for month.....		\$132 50

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>November, 1906.</i>	
	Pay roll No. 1.....	Labor on Grand Reservoir.....	\$137 75
	Total for month.....	.....	\$137 75

ABSTRACT OF MONEY PAID.

By H. W. Meacham, Superintendent Sub-Division No. 3, Grand Division No. 3,
Miami and Erie Canal, for Services and Expenses in the matter of the
Dynamiting Case at St. Marys Reservoir.

No. of Voucher.	To Whom.	And For What Paid.	Amount.
		<i>March, 1906.</i>	
1	The Pinkerton Detective Agency	Services rendered	\$318 33
	Total for month.....	.....	\$318 33

ABSTRACT OF MONEY PAID.

Improvement Miami and Erie Canal, between Dayton and Cincinnati, as provided
by an Act of the Seventy-Seventh General Assembly of Ohio, by James C.
Wonders, Assistant Engineer.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
<i>April, 1906.</i>			
1	Probst Furniture Arcade..	Office fixtures	\$12 68
2	Middletown Elec. Light Co.	Wiring office	11 77
3	Wm. Chestnut	Paper hanging	6 50
4	Conroy, Levy & Co.....	Office fixtures	20 61
5	Johnson & Co.....	Office supplies	66 30
6	Charles E. Denney.....	Repairing office	101 13
7	W. E. McElree.....	Personal expenses	6 10
8	James C. Wonders.....	Personal expenses	84 55
	Pay roll No. 1.....	.....	275 00
	Total for month.....	.....	\$584 64
<i>May, 1906.</i>			
1	George D. Baker.....	Personal expenses	\$61 20
2	Joseph Schueller	Personal expenses	44 25
3	W. E. McElree.....	Personal expenses	59 45
4	H. C. Baldwin.....	Personal expenses	17 35
5	James C. Wonders.....	Personal expenses	105 15
6	Hatfield Coal Co.....	Coal for boarding boat.....	4 50
7	Charles E. Denny.....	Supplies for canal survey.....	21 43
8	Charles E. Denny.....	Supplies and repairs engineer's office	25 85
9	Probst Furniture Arcade...	Supplies and repairs engineers office and boarding boat.....	19 75
10	Johnson & Co.....	Supplies engineer's office.....	4 60
11	C. C. Fouts.....	Office and field party supplies...	10 15
12	Fred R. Smith.....	Livery	6 75
13	Chas. Glawe Mfg. Co.....	Awnings for engineer's office....	17 00
14	William Sheedy	Supplies for boarding boat.....	15 80
15	The T. V. Howell & Son Co.	Supplies for boarding boat.....	11 40
16	The Middletown Electric Light and Power Co.....	Lighting engineer's office.....	75
17	The Toledo Blade Co.....	Publishing advertisement, sale of work	5 28
18	The Commercial Tribune Co.	Publishing advertisement sale of work	4 17
19	Ohio State Journal.....	Publishing advertisement sale of work	5 15
20	Dayton Daily News.....	Publishing advertisement sale of work	6 25
21	The Toledo Press.....	Publishing advertisement sale of work	6 65
22	Plain Dealer Publishing Co.	Publishing advertisement sale of work	6 03

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
23	The Columbus Press.....	Publishing advertisement sale of work	5 55
24	Enquirer Company	Publishing advertisement sale of work	5 71
	Pay roll No. 1.....	.....	802 76
	Total for month.....	.....	\$1,272 93
<i>June, 1906.</i>			
1	James C. Wonders.....	Personal expenses	\$117 20
2	George D. Baker.....	Personal expenses	30 20
3	W. E. McElree.....	Personal expenses	42 25
4	Joseph Schneller	Personal expenses	29 90
5	H. C. Baldwin.....	Personal expenses	63 40
6	The Middletown Electric Light & Power Co.....	Lighting asst. engrs. office.....	75
7	Johnson & Co.....	Supplies asst. engrs. office.....	33 12
8	John S. Spoerl.....	Supplies H. F. Eyler's boat.....	2 00
9	Charles E. Denny.....	Supplies for cross-sectioning party.....	5 00
10	Central Union Tel. Co.....	Messages over Ohio Boat Co.'s telephone	1 85
11	Fred R. Smith.....	Livery hire	10 00
12	Joseph Dietz.....	Personal expenses	11 95
13	Ohio State Journal.....	Publishing sale notices.....	16 26
14	The Engineering News Pub Co.....	Publishing sale notices.....	36 00
15	Plain Dealer Publishing Co.....	Publishing sale notices.....	7 90
16	The Columbus Press.....	Publishing sale notices.....	9 87
17	Dayton Daily News.....	Publishing sale notices.....	10 00
18	The Defiance Express.....	Publishing sale notices.....	5 25
19	Leader Printing Co.....	Publishing sale notices.....	5 00
20	The Dayton Journal Co.....	Publishing sale notices.....	5 63
21	The Crescent Pub. Co.....	Publishing sale notices.....	3 41
22	The Toledo Press.....	Publishing sale notices.....	10 40
23	The Toledo Newspaper Co.....	Publishing sale notices.....	6 65
	Pay roll No. 1.....	.....	738 25
24	Lockland Lumber Co.....	3 poles 1½ dia. 16'.....	3 00
25	F. W. Elberg.....	3 tons coal.....	9 75
26	William Sheedy	Travelling expenses, dredge crew.....	22 42
27	John Mueller	5 tons coal.....	17 50
	Pay roll No. 2.....	.....	175 30
	Total for month.....	.....	\$1,433 21
<i>July, 1906.</i>			
1	James C. Wonders.....	Personal expense account.....	\$91 20
2	W. E. McElree.....	Personal expense account.....	56 40
3	George D. Baker.....	Personal expense account.....	66 65
4	Joseph Schneller	Personal expense account.....	68 85

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
5	H. E. Baldwin.....	Personal expense account.....	60 30
6	Wm. Shuyler, Jr.....	Personal expense account.....	7 00
7	Johnson & Co.....	Supplies for engr's. office.....	23 55
8	C. C. Fouts.....	Supplies for surveying party.....	2 90
9	George Mitchell.....	Letter heads for engr's. office.....	5 95
10	The Middletown Elec. Light and Power Co.....	Lighting engr's. office.....	1 32
11	Anna Eldredge.....	Typewriting contracts, etc.....	8 65
12	Amer. Contractor Pub. Co. Pay roll No. 1.....	Publishing sale notices.....	25 92 611 00
13	Treon & Cade.....	Supplies for state dredge boat....	1 75
14	William Sheedy.....	Supplies for state dredge boat....	2 80
15	William Sheedy.....	Supplies for state dredge boat....	4 00
16	Alfred L. Silberman.....	Supplies for state dredge boat....	2 00
17	Frank Shuey.....	Supplies for state dredge boat....	4 57
18	The Grove & Weber Co....	Coal for state dredge boat.....	38 60
19	Frank Shuey.....	Supplies for state dredge boat....	48 65
20	William Sheedy.....	Car fare for state dredge crew....	44 35
	Pay roll No. 2.....		282 62
21	The Dayton Steam Boiler Works.....	Repairs to dredge No. 4.....	20 85
22	John M. O'Connor.....	Rent of canal boat.....	52 00
23	The Dayton Globe Iron Works Co.....	Repairs to dredge No. 4.....	44 50
24	The Middleton News Co...	Publishing sale notices.....	8 75
	Total for month.....		\$1,595 13
<i>August, 1906.</i>			
1	James C. Wonders.....	Personal expenses.....	\$96 60
2	George D. Baker.....	Personal expenses.....	50 55
3	W. E. McElree.....	Personal expenses.....	61 60
4	Joseph Schneller.....	Personal expenses.....	52 45
5	H. C. Baldwin.....	Personal expenses.....	49 50
6	Wm. Shuler, Jr.....	Personal expenses.....	3 05
7	The Middletown Elec. and Power Co.....	For lighting engineer's office....	1 56
8	Remington Typewriter Co..	Typewriter for engineer's office..	94 50
9	Johnson & Co.....	Supplies for engineer's office.....	13 80
10	The Dayton Daily News...	Advertising sale of work.....	4 00
11	The Commercial Tribune Co.....	Advertising sale of work.....	3 46
12	The Toledo Newspaper Co.	Advertising sale of work.....	4 40
13	George Mitchell.....	Printing specifications, Miami Ri- ver Dam.....	16 50
14	The Engineering News Pub Co.....	Advertising sale of work.....	16 20
15	The Enquirer Company.....	Advertising sale of work.....	7 42
16	Enquirer Company.....	Advertising sale of work.....	9 12
17	Enquirer Company.....	Advertising sale of work.....	4 66
18	The Cleveland Leader.....	Advertising sale of work.....	7 17

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
19	Waverly News, Pike Co...	Advertising sale of work.....	9 75
20	The Shelby News.....	Advertising sale of work.....	5 50
21	Ohio State Journal.....	Advertising sale of work.....	4 12
22	C. C. Fouts.....	Supplies for engineer's office.....	5 80
23	Fred R. Smith.....	For hauling and horse hire, en- gineer's office	30 85
33	Plain Dealer Pub. Co.....	Advertising sale of work.....	4 90
41	The Cleveland Leader Co..	Advertising sale of work.....	4 30
	Pay roll No. 1.....	.....	610 75
	<i>Estimates.</i>		
1	The Atlas Portland Cement Co. ....	.....	425 00
2	W. J. Orr.....	.....	153 08
	The following expenses were incurred by Chas. Cooper, Supt. of Division No. 2:		
24	Village of Lockland, W. W. Dept.	Water for flushing Miami and Erie Canal	48 00
25	Lockland Lumber Co.....	Lumber for dam.....	20 90
26	The Grove & Weber Co...	Coal and supplies for dredge No. 4	38 79
27	Alfred L. Silberman.....	Supplies dredge No. 4.....	3 00
28	C. E. Ware.....	Supplies dredge No. 4.....	11 05
29	H. S. Conover.....	Supplies dredge No. 4.....	12 50
30	The Stacey Mfg. Co.	Supplies dredge No. 6.....	10 00
31	Treon & Cade.....	Supplies dredge No. 4.....	75
32	William Sheedy	Supplies and expenses.....	39 00
42	H. F. Eyler.....	Transportation	4 70
43	Frank Shuey	Supplies dredge No. 4.....	7 94
	Pay roll No. 2.....	.....	437 75
	Pay roll No. 3.....	.....	127 02
	The following expenses were incurred by John O'Connor, Supt. of Sub- division No. 2:		
34	S. T. & G. A. Gebhart.....	Bolts for canal scrapers.....	1 50
35	Dayton Livery Co.....	Livery for supt.....	4 00
36	Chas. H. Cook.....	Iron and labor making canal sca- pers	26 48
37	The John Rouzer Co.....	Labor for making canal scrapers..	53 85
38	Clem L. Kimmel.....	Rope and bolts in towing and making canal scrapers.....	213 14
39	Alexander Gebhart & Co...	Lumber for making scrapers.....	24 14
40	John M. O'Connor.....	Rent of canal boat for dredge No. 4	54 00
	Pay roll No. 1.....	.....	629 00

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
	Pay roll No. 2.....		465 00
	Pay roll No. 3.....		342 50
	Pay roll No. 4.....		1,595 00
	Total for month.....		\$5,920 60
	<i>September, 1906.</i>		
1	James C. Wonders.....	Personal expenses	\$70 20
2	George D. Baker.....	Personal expenses	48 25
3	W. E. McElree.....	Personal expenses	66 00
4	Joseph Schneller	Personal expenses	57 55
5	H. C. Baldwin.....	Personal expenses	50 05
6	C. C. Fouts.....	Supplies for Miami River dam and engineer's office.....	15 83
7	The Amer. Contractor.....	Advertising proposals for Miami River Dam	8 10
8	The Dayton Journal Co....	Advertising proposals for Miami River Dam	4 00
9	The Columbus Press.....	Advertising proposals for Miami River Dam	4 52
10	The Middletown Electric Light & Power Co.....	Lighting engineers office.....	75
11	George Mitchell	Printing inspector's reports.....	4 25
12	Fred Smith	Livery and hauling lumber.....	19 95
13	Probst Furniture Co.....	Typewriter desk for engineer's office	27 00
14	Central Union Tel. Co.....	Telephone service for engrs. office.	2 50
15	A. Ritter	Lock gate irons, bands and bolts..	17 40
16	Johnson & Co.....	Supplies for engineer's office.....	5 15
	Pay roll No. 8.....	Engineer's office force.....	702 00
	<i>Estimates.</i>		
1	Frank Davis	Lesourdsville Aqueduct and Mid- dletown Lock	1,845 09
2	The Atlas Portland Cement Co.	Furnishing cement	1,602 25
17	Fred Smith	Livery	10 00
18	William Biehl	Coal for dredge No. 6.....	7 33
19	William Sheedy	Car fare	4 95
20	Jos. B. Blettner & Co.....	Supplies for dredge No. 6.....	21 00
21	H. F. Eyder.....	Car fare	15 00
22	The Southern Ohio Ex- press Co.	Express on scrapers.....	3 00
23	R. V. Denny.....	Car fare and use of boat.....	9 40
24	Frank Krehe	Coal for dredge No. 6.....	13 00
	Pay roll No. 6.....		111 78
	Pay roll No. 7.....		360 92
25	John M. O'Connor.....	Rent of canal boat.....	24 00
26	C. H. Cook.....	Iron for canal scrapers.....	50 11

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
27	Alexander Gebhart & Co...	Lumber for flume and waste gates.	160 20
28	Miami Lumber and Veneer Co.	Lumber for flume and waste gates	98 52
29	The John Rouzer Co.....	Making canal scrapers and building flume	103 05
30	Clem L. Kimmel.....	Rope for towing canal scrapers..	69 96
31	S. T. & G. A. Gebhart.....	Bolts for canal scrapers.....	8 62
	Pay roll No. 1.....	John O'Connor's Division.....	1,103 50
	Pay roll No. 2.....	John O'Connor's Division.....	415 00
	Pay roll No. 3.....	John O'Connor's Division.....	540 50
	Pay roll No. 4.....	John O'Connor's Division.....	2,122 50
	Pay roll No. 5.....	John O'Connor's Division.....	637 00
	Total for month.....		\$10,440 18
<i>October, 1906.</i>			
1	James C. Wonders.....	Personal expenses	\$88 50
2	George D. Baker.....	Personal expenses	60 15
3	W. E. McElree.....	Personal expenses	49 87
4	Joseph Schneller	Personal expenses	63 65
5	H. C. Baldwin.....	Personal expenses	65 20
6	Frank Davis	Extra work at Middletown lock..	60 58
7	C. C. Fouts.....	Supplies for carpenter shop.....	20 20
8	William Lambert	Assisting engineer survey Big Four encroachment	2 00
9	William Rindsberg	Inspector Sunfish Aqueduct.....	150 00
10	Chas. E. Denny.....	Material for dam at Middletown lock	40 86
11	Central Union Tel. Co.....	Telephone service for engineer's office	3 30
12	George Mitchell	Typewriter paper for engineers office	1 00
13	Herm. Pfister	Repairing Y level.....	3 50
14	Johnson & Co.....	Supplies for engineer's office.....	13 25
15	Fetzer & Co.....	Supplies for lockgate wicket.....	21 10
16	Fred R. Smith.....	Hauling lumber and livery.....	18 00
17	C. C. Fouts.....	Supplies, carpenter shop and engineer's office	4 80
18	Middletown Electric Light and Power Co.	Lighting engineer's office.....	75
	Pay roll No. 4.....		670 00
<i>Estimates.</i>			
2	Frank Davis	Middletown and Amanda locks...	1,891 16
2	W. J. Orr.....	Lumber for lock gates and sheeting	402 88
3	The Atlas Portland Cement Co.	Furnishing cement	306 00
19	Chas. Laspe	Brick for Shepherds creek culvert.	5 60
20	J. Y. Jacobs.....	Teaming and pointing walls.....	9 00

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
21	Mahatcke & Newton.....	Sacks for dam.....	38 50
22	Fred R. Smith.....	Gravel for dam at Middletown lock	27 60
23	Fred R. Smith.....	Team work at Miamisburg aque- duct	30 00
24	C. E. Ware.....	Rubber hose	12 65
25	Miamisburg Lumber Co....	Lumber used at Miamisburg aque- duct	25 81
26	Henry Eyer	Car fare for men.....	9 25
27	Zeb Leis	Hauling cement and scooping gravel	25 50
28	Cin., Ham. & Dayton Ry...	Car service	4 00
29	H. C. Hoff.....	Comforts	5 00
	Pay roll No. 5.....	Chas. Cooper's Division.....	132 00
	Pay roll No. 6.....	.....	240 80
	Pay roll No. 7.....	.....	75 00
	Pay roll No. 8.....	.....	228 10
30	Charles A. Gump.....	Rubber boots	38 50
31	Alexander Gebhart & Co..	Lumber	103 03
32	Clem L. Kimmel.....	Nails, rope, etc.....	86 16
33	T. D. Eichelberger's Sons	Cement	7 60
34	The John Rouzer Co.....	Labor on flume.....	21 60
35	Michael Moran	Livery for Supt.....	17 50
36	Michael Moran	Livery for Supt.....	11 00
37	Lincoln Evans	Car fare for men.....	32 90
	Pay roll No. 1.....	John O'Connor's Division.....	1,738 50
	Pay roll No. 2.....	.....	869 00
	Pay roll No. 3.....	.....	1,866 25
	Total for month.....	.....	\$9,597 60
<i>November, 1906.</i>			
1	James C. Wonders.....	Personal expenses	\$74 45
2	George D. Baker.....	Personal expenses	38 10
3	W. E. McElree.....	Personal expenses	51 55
4	Joseph Schneller	Personal expenses	37 15
5	H. C. Baldwin.....	Personal expenses	49 00
6	George Mitchell	Pencil pads, engineer office.....	60
7	The Johnson Drug Co....	Supplies, engineer's office.....	11 10
8	Ohio Natural Gas Fitting Co.	Gas stoves and fittings for engi- neers' office	27 60
9	Middletown Elec. L. & P. Co.	Lighting engineer's office.....	75
10	Central Union Tel Co....	Telephone service for engr.'s office.	4 25
11	Middletown Gas and Elec. Light Co.	Heating engineers' office.....	90
12	Hatfield Coal Co.....	Coal for engineer's office.....	3 75
13	William Rindsberg	Inspector Lesourdsville aqueduct.	135 00
14	Geo. P. Gingerich.....	Driving test piles, Middletown dam	250 00

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
15	Fetzer & Co.....	Pattern work on wicket gates....	10 00
16	Charles E. Denny.....	Lumber for Middletown lock gates	14 94
17	Charles E. Denny.....	Supplies, engineer's office and sur- veying party	11 75
18	The Frank M. Watkins Mnfg. Co.	Propeller for gasoline launch....	5 00
19	Sullivan Bros.	Livery	5 00
20	A. Ritter	Iron and blacksmith work for Middletown and Amanda locks.	93 84
21	E. B. Ford.....	Testing cement	17 50
22	Fred R. Smith.....	Hauling and livery	16 00
23	Cin., Hamilton and Dayton Ry.	Freight and car service, 2 cars cement, Amanda to Excello....	163 80
24	Frank Davis	Extra work, Amanda lock.....	56 30
25	The Stacey Mnfg. Co.....	Steel plates for lock gates.....	190 00
	Pay roll No. 1.....	.....	670 00
26	Fred R. Smith.....	auling for Middletown lock....	22 60
27	John Mueller.....	Coal for dredge No. 6.....	18 75
28	John Arpp.....	Pump and hose.....	14 00
29	J. A. Yingling's Sons.....	Use of pump Middletown lock....	12 55
30	Ralston Coal Co.....	Coal for pumping out Middletown lock	6 00
31	L. B. Cahill.....	Rubber boots at Middletown lock.	19 75
32	F. F. Pegg.....	Engine pumping out, Middletown lock	27 30
33	C. C. Fouts.....	Hardware for Middletown lock, etc.	60 92
34	Henry F. Eyler.....	Car fare, Sunfish aqueduct.....	7 20
	Pay roll No. 2.....	.....	432 68
	Pay roll No. 3.....	.....	57 50
	Work done by John O'Con- nor, Supt:		
	Pay roll No. 4.....	.....	\$481 00
35	Reno Runck	Assisting surveyor cross-section- ing canal	5 25
36	Bertha Young	Typewriting	50
37	Leo Veit	Flag poles	4 00
	<i>Partial Estimates.</i>		
4	The Atlas Portland Cement Co. ....	.....	\$153 00
3	W. J. Orr.....	.....	167 56
3	Frank Davis .....	.....	1,090 38
	Total for month.....	.....	\$4,519 27

ABSTRACT OF MONEY PAID—Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
		<i>November, -1906 — Supplemental.</i>	
1	John Snyder	Final Estimate — Substructure, Sunfish aqueduct, first and final estimate, amount due.	\$1,112 81
1	Capitol Construction Co.	Superstructure, Sunfish aqueduct, first and final estimate, amount of estimate, \$2,485.00; deduct allowance by Board, \$1,500.00; amount due	985 00
		.....	<u>\$2,097 81</u>

ABSTRACT OF MONEY PAID.

Improvement Miami and Erie Canal, between Dayton and Toledo, as provided
by an Act of the Seventy-Seventh General Assembly of Ohio, by J. C.
Wonders, Assistant Engineer.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
		<i>May, 1906.</i>	
1	E. C. Baird	Services as engineer.....	\$33 20
2	Michael Moran	Livery	15 00
	Total .....	.....	<u>\$48 20</u>
		<i>May, 1906.</i>	
1	F. C. Kenthan.....	Services as engineer.....	\$2 50
2	H. W. Meacham.....	Services as engineer and prepar- ing plans	50 00
3	H. W. Meacham.....	Traveling expenses	19 05
	Total .....	.....	<u>\$71 55</u>

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
<i>June, 1906.</i>			
1	H. W. Meacham.....	Services as engineer, preparing plans and field work.....	\$60 00
2	H. W. Meacham.....	Expenses of engineer, preparing plans and field work.....	29 65
	Total .....	.....	\$89 65
<i>July, 1906.</i>			
1	The Dayton Journal Co....	Publishing notice of sale of work.	\$9 37
2	The Commercial Tribune Co.	Publishing notice of sale of work.	9 62
3	The Toledo Blade Co.....	Publishing notice of sale of work.	9 88
			\$28 87
	<i>H. W. Meacham Division.</i>		
4	H. W. Meacham.....	Services as engr., preparing plans.	\$40 00
5	H. W. Meacham.....	Expenses as engr., preparing plans.	26 30
6	The German American Pub. Co.	Publishing notice of sale of work.	8 90
7	The Blade Printing Co....	Publishing notice of sale of work.	8 12
8	The Republican Publishing Co.	Publishing notice of sale of work.	8 55
9	The Crescent Publishing Co.	Publishing notice of sale of work.	7 13
	Total .....	.....	\$127 87
<i>August, 1906.</i>			
1	H. W. Meacham.....	Personal expenses	\$19 55
2	H. W. Meacham.....	Services as engr.....	55 00
3	The L. Beckman Co.....	Making blue prints of plans.....	9 86
			\$84 41
	Pay roll No. 1.....	.....	297 63
	Total .....	.....	\$382 04
	The above expense was incurred by H. W. Meacham, Supt. of Div. No. 3.		
<i>September, 1906.</i>			
1	H. W. Meacham.....	Personal epenses	\$26 40
2	H. W. Meacham.....	Services as engr.....	50 00
3	F. G. Floyd.....	Livery	2 00
4	Lewis Overle	Assisting surveyors	3 50
5	M. B. Gorman.....	Sewer pipe	72 80

ABSTRACT OF MONEY PAID — Continued.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
6	John Crowe	Services as inspector.....	48 00
7	James Kohn	Services as inspector.....	72 00
	<i>Estimates.</i>		
1	The Atlas Portland Cement Co.	Furnishing Portland cement.....	\$2,355 75
1	Schneider Bros.	Work on locks Nos. 36 and 37..	2,346 48
	Total for month.....		\$4,976 93.
		<i>October, 1906.</i>	
1	H. W. Meacham.....	Services as engineer	\$55 00
2	H. W. Meacham.....	Personal expenses	35 10
3	W. A. Kuhlman & Co.....	Bar iron and machine work.....	95 63
4	John Blue	Services as engineer.....	5 00
5	Wesley McDonald	Services as inspector.....	116 00
6	James Kohn	Services as inspector.....	120 00
7	James Crowe	Services as inspector.....	120 00
	<i>Estimates.</i>		
2	Schneider Bros.	Locks Nos. 36 and 37, Defiance..	\$3,110 49
2	The Atlas Portland Cement Co.	Furnishing cement	1,749 15
	Total for month.....		\$5,406 37
		<i>November, 1906.</i>	
1	H. W. Meacham.....	Services as engineer.....	\$45 00
2	H. W. Meacham.....	Personal expenses	31 80
3	The Capitol Construction Co.	Iron for bridges, locks 14, 36 and 37	240 88
4	L. Archambeault	Blacksmithing, locks 3, 6 and 37..	66 75
5	Geo. W. Weadock.....	Livery	49 50
6	Chas. Pohlman	Cement testing apparatus.....	1 20
7	John Crowe	Inspector Defiance locks	108 00
8	Wesley McDonald	Inspector Six Mile aqueduct.....	108 00
	Pay roll No. 1.....		210 23
	<i>Partial Estimates.</i>		
3	The Atlas Portland Cement Co.		\$1,521 00
3	Schnider Bros.		4,632 16
1	David Beard		2,411 10
	Total for month.....		\$9,425 62

ABSTRACT OF MONEY PAID — Concluded.

No. of Voucher or Estimate.	To Whom.	And For What Paid.	Amount.
1	J. N. Kissner.....	<i>November, 1906 — Supplemental.</i>	
	Total for month.....	First and final estimate for constructing a culvert in the village of Spencerville.....	\$1,168 97
		.....	\$1,168 97

TONAGE STATISTICS

FOR THE

YEAR ENDING NOVEMBER 15, 1906.

(179)

THE UNIVERSITY OF CHICAGO

1968

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

THE UNIVERSITY OF CHICAGO

TONAGE STATISTICS.

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Cleveland on the Ohio & Erie Canal for the year Year ending November 15, 1906.

None. Navigation closed — Account of improvements.

Articles.	Arrived.	Cleared.
None. Navigation closed account of improvements.....

JAMES M. JONES, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Akron on the Ohio Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
Coal (mineral)	5,848,000	3,260,000
<i>Tons</i> —		
Stone	15	.....

J. H. MORRISON, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Massillon on the Ohio Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Barrels</i> —		
Lime and cement	15	15
<i>Bushels</i> —		
Coal	5,264,000	6,484,000
<i>Pounds</i> —		
Machinery		12,000
Merchandise	10,000	8,000
<i>Number</i> —		
Barrels (empty)	190	190
<i>Feet</i> —		
Lumber	44,000	44,000

DAVID ATWATER, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Canal Dover on the Ohio Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Barrels —</i>		
Flour		155
Lime and cement		393
<i>Bushels —</i>		
Corn		737
Coal (mineral, lbs.)		8,076,000
Wheat		30,476
<i>Pounds —</i>		
Feed		24,000
Pottersware (tiling)		368,000
<i>Feet —</i>		
Lumber		46,900
<i>Cords —</i>		
Wood		236

M. S. HARVEY, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Roscoe on the Ohio Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
No freight		

August 28, 1906 — Wm. Hall, pleasure boat from May 1, 1906, to November 1, 1906, \$5.

October 30, 1906 — Leni Butles, pleasure boat permit from December 22, 1905, to December 22, 1906, \$10.

W. H. WILSON, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Newark and Carroll on the Ohio Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
No tonnage on this division on either of the Canal Ports		

W. H. KIRKENDALE, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Circleville and
and Columbus on the Ohio and Erie Canal, for the Year ending
November 15th, 1906.

Articles.	Arrived.	Cleared.
No tonnage on this division at either of the ports named above		

W. H. KIRKENDALE, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Cincinnati on the
Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
Barrels —		
Beer		52
Vinegar	10	120
Flour	1,370	33
Oil	32	235
Lime and cement	15	182
Whisky	80,836	7
Bushels —		
Corn	70	
Pounds —		
Acid and drugs	272,170	91,184
Baggage and furniture	23,840	32,270
Pitch	7,500	12,000
Cotton wadding	1,222,708	6,750
Fire clay		3,600
Roofing slate		21,600
Tar	14,500	11,000
Iron (pig or scrap)	5,820	17,199
Iron (cast)	620,990	25,745
Ice	6,192,000	
Iron (bar)	270,836	458,508
Machinery	11,575	25,995
Merchandise	2,971,670	3,449,764
Pottersware		14,350
Paper	5,673,620	105,408
Powder		8,275
Rags and paper stock	35,171	7,223,711
Sand	88,010,000	
Sugar		170,245
Number —		
Barrels (empty)	717	71,737
Fire brick		9,271
Lath		2,000
Feet —		
Lumber	98,218	205,540

FRED MAAG, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Lockland, on the Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Barrels —</i>		
Vinegar	22	1
Flour	2,082	1,458
Oil, all kinds.....	82	2
Lime and cement.....	693	37
Tar	10	31
Whisky	3	2
<i>Bushels —</i>		
Potatoes	105	850
Corn		126
Oats		
<i>Pounds —</i>		
Fireworks		476,015
Cotton	6,780	1,315,835
Baggage and furniture.....	1,500	9,870
Acid	8,994	270,953
Stoves		12,450
Fire clay	9,800	
Paint	4,000	
Rosin	15,200	208,901
Ice		6,140,000
Iron (pig or scrap).....		4,000
Iron (cast)	15,700	16,150
Iron (bar)	206,884	775,164
Machinery	6,875	1,350
Merchandise	2,342,057	791,590
Sewer pipe	2,200	1,550
Paper	55,310	6,026,199
Powder	3,295	
Rags and paper stock.....	8,431 119	43,600
Sugar	139,013	
Tallow		2,000
<i>Number —</i>		
Barrels (empty) all kinds.....	16,628	2,551
Fire brick	5,771	
Lath	2,500	
Shingles		5,000
<i>Feet —</i>		
Lumber	91,908	27,565
1 horse and 2 wagons.....		2,750

J. W. SULLIVAN, Collector.

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Middletown on the
Miami & Erie Canal, for the Year ending November 15, 1906.

COLLECTIONS.

Rents	\$5,589 65
Tolls	102 36
<hr/>	
Sent to State Treasurer	\$5,692 01
Rebates to H. J. R., No. 21.....	\$167 01

Articles.	Arrived.	Cleared.
<i>Pounds —</i>		
Brass and zinc.....		3,947
Baggage and furniture.....	4,480	16,560
Acid	4,300	
Iron	61,885	49,704
Steel		4,860
Lead		1,365
Machinery	300	2,425
Merchandise	156,092	34,445
Paper	37,617	182,040
Paper stock	2,739	28,083
Paper bags		852,500
Sugar		6,389
Tar		121,100
Sundries		37,810
<i>Number —</i>		
Barrels (empty)	625	308
Carboys M. T.....		23
<i>Feet —</i>		
Lumber	3,931	

E. C. BOOTH, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Dayton on the
Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Pounds —</i>		
Cement		6,400
Jute		5,000
Iron pipe		800
Merchandise		330,290
Paper, manufactured		2,525,298
<i>Number —</i>		
Barrels (empty)		2

ELMER WOMBOLD, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Piqua on the
Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Pounds—</i>		
Sand		1,080,000
<i>Number—</i>		
Brick		90,000
<i>Feet—</i>		
Lumber		6,000
<i>Perches—</i>		
Stone		72

F. C. DAVIES, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Delphos on the
Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
On account canal being out of repair and water being out for repairs, nothing arrived or cleared.....		

JOS. A. CLAYPOOL, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Defiance on the Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Barrels —</i>		
Ale and beer kegs.....		125
Oil	11	
Lime and cement.....	212	
Salt	28	
<i>Pounds —</i>		
Baggage and furniture.....		150
Merchandise	160	
<i>Number —</i>		
Kegs (empty)		240
Brick		175
Lath	148	
Shingles	270	
<i>Cubic Feet —</i>		
Ship timber		12,000
Lumber	120,000	240,000
Timber (logs)	230,000	114,000
<i>Cords —</i>		
Wood	116	218

H. W. MEYERS, *Collector*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Napoleon, on the Miami & Erie Canal, for the Year ending November 15, 1906.

Articles.	Arrived.	Cleared.
<i>Barrels —</i>		
Flour		20
<i>Pounds —</i>		
Hay		8,000
Sand	176,820	303,120
<i>Number —</i>		
R. R. ties		430
<i>Feet —</i>		
Lumber	6,000	353,000
Logs, cubic feet		40,000
<i>Cords —</i>		
Wood		284

D. H. HANCOCK, *Collector.*

STATEMENT

Of the Tonnage of Articles Arrived and Cleared at the Port of Toledo on the
Miami & Erie Canal, for the Year ending November 15, 1906.

	Arrived.	Cleared.
<i>Bushels —</i>		
Grain	7,500	
<i>Pounds —</i>		
Hay	28,000	
Merchandise		1,500
Plaster		40,000
<i>Number —</i>		
Barrels (empty) and cases	90	
Lath		5,000
Posts		50
<i>Feet —</i>		
Lumber	425,000	3,500
<i>Cords —</i>		
Wood	608	

CHAS. WITTICH, Collector.

REPORT
OF THE
Board of Public Works
AND
Chief Engineer of Public Works
ON THE WORK OF
Canal Land Department
FOR THE
Year Ending Nov. 15, 1906.
(189)

OFFICE OF THE BOARD OF PUBLIC WORKS.

COLUMBUS, OHIO, November 15, 1906.

To his Excellency, ANDREW L. HARRIS, Governor of Ohio.

SIR:—I have the honor to transmit to you herewith the report of the Board of Public Works and the Chief Engineer of Public Works on the work of the Canal Land Department, for the fiscal year ending November 15th, 1906.

GEO. H. WATKINS,

President Board of Public Works.

CANAL LAND DEPARTMENT.

By the provisions of Section 3 of the act of the General Assembly of Ohio, passed April 2nd, 1906, the duties heretofore performed by the Ohio Canal Commission, were transferred to and vested in the Board of Public Works.

In accordance with the provisions of this act, the Canal Commission formally transferred all books, records, documents, papers, surveys, maps, plats, furniture, and other property of the state in its possession, to the Board of Public Works on the 28th day of April, 1906.

As the work of determining the titles of state canal property is often quite difficult, it was determined wise to retain the working force that had assisted the Canal Commission in the work of that department.

While this work has increased the duties of the Board and Chief Engineer to a considerable extent, it has been carried on in a manner that is quite satisfactory, as the results show.

FINANCIAL STATEMENT.

The following statement shows the number and value of leases and sales made by the Board for the six and one-half months ending November 15th, 1906, also the number and value of leases and sales made by the Ohio Canal Commission for the preceding five and one-half months.

LAND LEASES BY THE BOARD OF PUBLIC WORKS.

Seven (7) land leases were granted on the Miami and Erie Canal at a Total valuation of	\$2,650 00
Sixty-seven land leases were granted on the Ohio Canal at a total valuation of	20,957 00

LANDS SOLD BY THE BOARD OF PUBLIC WORKS.

Three tracts of land on the Ohio Canal were sold at a total valuation of	\$2,170 00
--	------------

LANDS LEASED BY THE CANAL COMMISSION.

Fifty-three leases were made by the Ohio Canal Commission prior to May 1, 1906, at a total valuation of.....	\$34,009 00
One sale of land was made by the Ohio Canal Commission (public auction) at a valuation of.....	1,980 00

RECAPITULATION.

Total value of lands leased by the Canal Commission and Board of Public Works for the year ending Nov. 15, 1906.....	\$57,616 00
--	-------------

LANDS SOLD.

Total value of lands sold by the Canal Commission and Board of Public Works for the year ending Nov. 15, 1906..... \$4,150 00

RECEIPTS FROM LEASES AND SALES.

Rentals were received from lands leased on the M. & E. Canal, including \$6,787.81 oil royalties, amounting to..... \$26,830 03
Total collections from the Ohio Canal land leases amounted to..... 8,970 93

Total collections from land leases..... \$35,800 96
Total receipts from land sales..... 4,150 00

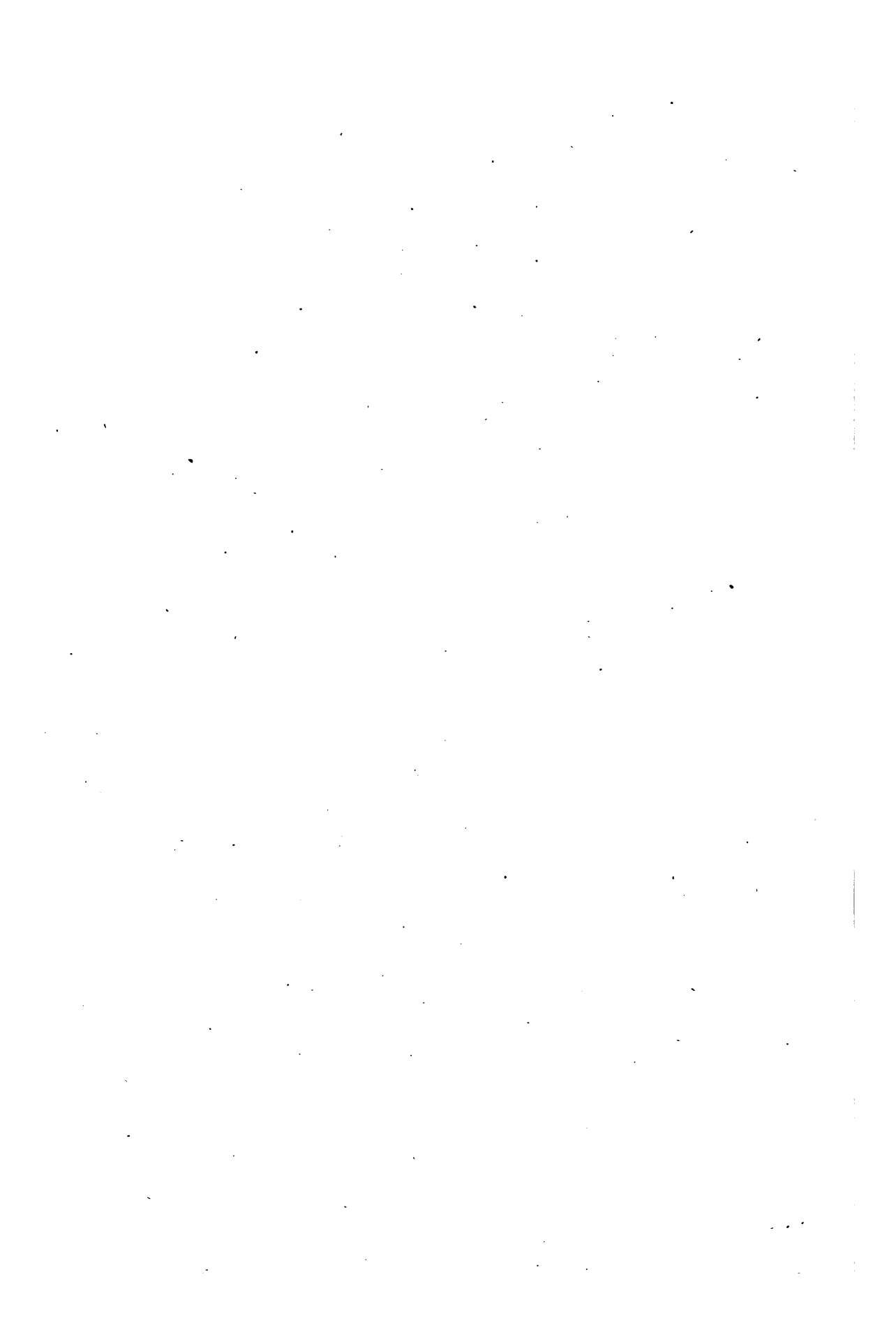
Total receipts from rentals and sales..... \$39,950 96

Quite a number of collections were made by the Canal Collectors too late to be reported before the close of the fiscal year on November 15, 1906, and the same will appear in our next report.

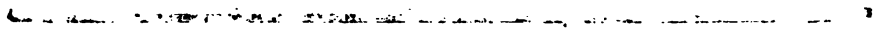
GEO. H. WATKINS,
W. KIRTLEY, JR.,
B. W. BALDWIN,
Board of Public Works.

CHAS. E. PERKINS,
Chief Engineer Public Works.

Columbus, Ohio, November 15, 1906.



Fifth Annual Report
OF THE
PARK BOARD
(1905).



FIFTH ANNUAL REPORT OF THE PARK BOARD.

HON. ANDREW L. HARRIS, *Governor of Ohio.*

SIR:—The Board of Public Works of Ohio and the Chief Engineer of Public Works, acting jointly as the "Park Board" pursuant to an act of the 75th General Assembly of Ohio, vide Laws of Ohio, Vol. 95, pp. 227, 283 et seq., providing that the said Joint Board shall make annual report to the Governor (to be included in the report of the State Board of Public Works) setting forth the action of said joint board on all matters pertaining to the management and control of all State reservoirs lakes and lands set apart for public parks and pleasure resorts, including a statement of all receipts and expenditures, have the honor to present herewith their fifth annual report for the fiscal year ending on the 15th day of November, 1906.

SECRETARY'S REPORT.

The Secretary's report herewith filed, shows the following for the fiscal year ending November 15, 1906.

Balance on hand November 15th, 1905.....	\$2,804 87
Amount received from leases of state lands and fees on boats:—	
Buckeye Lake	\$4,233 24
Portage Lakes	1,069 00
Indian Lake	956 50
Celina Grand Reservoir	298 00
	<hr/> 6,556 74
Total	<hr/> \$9,361 61

EXPENDITURES.

Buckeye Lake	\$1,495 69
Portage Lakes	560 37
Indian Lake	200 00
Celina Grand Reservoir.....	145 15
	<hr/> \$2,401 21

Balance on hand November 15, 1906..... \$6,960 40

By an act of the 77th General Assembly, passed April 2, 1906, all monies collected from leases and boat licenses must be expended for improvements upon the Park from which it is collected.

During the past year the Park Board prepared and had printed in pamphlet form, 3000 copies of Rules and Regulations governing the navigation of the public parks, and distributed them among lessees and those operating boats upon the waters of the public parks of the State.

Respectfully submitted,

GEO. H. WATKINS,
W. KIRTLEY, JR.,
B. W. BALDWIN,

Board of Public Works of Ohio.

CHAS E. PERKINS,
Chief Engineer of Public Works.

Columbus, Ohio, November 15, 1906.

UNIVERSITY OF MICHIGAN



3 9015 06718 4096